车规类产品目录

MOLDING/SMD INDUCTORS/FILTERTRANSFORMER/EMS

湖南华晟电通科技有限公司

HUNAN HUASUN TECHNOLOGY CO.,LTD

ISO9001 / ISO14001 / IATF16949

Automotive
AEC-Q200

HRBC SERIES



FEATURES

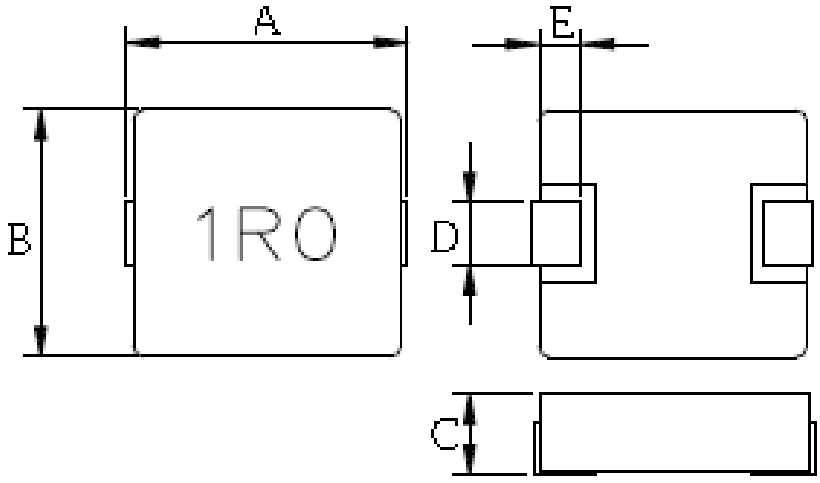
- RoHS compliant
- Super low resistance, ultra high current rating
- High performance (Isat) realized by metal dust core
- Frequency Range: up to 1MHz

ORDERING CODE

HRBC	0603	A	100	M	P	G	00

Type	Dimensions	Material code	Inductance	Tolerance	Surface	Colour	Tail code
	0402	A：alloyed	R47:0.47μH	M：±20%	P：plane	G：Gray	
	0503	C：carbonyl	4R7:4.7μH	T：±30%		B：Black	
	0603		470:47μH			N：Uncoated	
	1004		471:470μH				
	1205						
	1707						

Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
HRBC0415A	4.49±0.40	4.06±0.30	1.5max	1.5±0.3	1.1±0.3
HRBC0402A	4.49±0.40	4.06±0.30	2.0max	1.5±0.3	1.1±0.3
HRBC0515A	5.6±0.3	5.3max	1.5max	2.0±0.3	1.2±0.3
HRBC0518A	5.6±0.3	5.3max	1.8max	2.0±0.3	1.2±0.3
HRBC0502A	5.6±0.3	5.3max	2.0max	2.0±0.3	1.2±0.3
HRBC0503A	5.6±0.3	5.3max	3.0max	2.0±0.3	1.2±0.3
HRBC0615A	7.6max	6.6±0.3	1.5max	3.0±0.3	1.6±0.5
HRBC0618A	7.6max	6.6±0.3	1.8max	3.0±0.3	1.6±0.5
HRBC0602A	7.6max	6.6±0.3	2.0max	3.0±0.3	1.6±0.5
HRBC0624A	7.6max	6.6±0.3	2.4max	3.0±0.3	1.6±0.5
HRBC0603A	7.6max	6.6±0.3	3.0max	3.0±0.3	1.6±0.5
HRBC0604A	7.6max	6.6±0.3	4.0max	3.0±0.3	1.6±0.5
HRBC0605A	7.6max	6.6±0.3	5.0max	3.0±0.3	1.6±0.5
HRBC0705A	7.6±0.5	7.8±0.5	5.0max	5.0±0.3	1.5±0.5
HRBC1003A	11.8max	10.5max	3.0max	3.0±0.3	2.0±0.5
HRBC1004A	11.8max	10.5max	4.0max	3.0±0.3	2.0±0.5
HRBC1005A	11.0±0.5	10.0±0.3	5.0max	3.0±0.3	2.0±0.5
HRBC1235A	13.5±1.0	12.8±0.5	3.5max	3.5±0.5	2.5±0.5
HRBC1205A	13.5±1.0	12.8±0.5	5.0max	3.5±0.5	2.5±0.5
HRBC1265A	13.5±1.0	12.8±0.5	6.5max	3.5±0.5	2.5±0.5
HRBC1704A	18.0±1.0	17.0±0.5	4.0max	12.0±0.3	3.3±0.5
HRBC1707A	18.0±1.0	17.0±0.5	7.0max	12.0±0.3	3.3±0.5

HRBC0415A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0415AR22□PG00	0.22	100kHz,1V	9.5(11.0)	11.0	8.0	20,30	R22
HRBC0415AR33□PG00	0.33	100kHz,1V	15.0(19.0)	10.0	7.0	20,30	R33
HRBC0415AR47□PG00	0.47	100kHz,1V	17.0(20.0)	8.0	6.0	20,30	R47
HRBC0415AR68□PG00	0.68	100kHz,1V	19.0(22.0)	7.5	5.0	20,30	R68
HRBC0415A1R0□PG00	1.00	100kHz,1V	38.0(42.0)	7.0	4.0	20,30	1R0
HRBC0415A1R5□PG00	1.50	100kHz,1V	48.0(50.0)	6.0	3.5	20,30	1R5
HRBC0415A2R2□PG00	2.20	100kHz,1V	69.0(85.0)	5.0	3.0	20,30	2R2
HRBC0415A3R3□PG00	3.30	100kHz,1V	120.0(140.0)	3.5	2.3	20,30	3R3
HRBC0415A4R7□PG00	4.70	100kHz,1V	130.0(150.0)	2.8	2.0	20,30	4R7

HRBC0402A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0402AR10□PG00	0.10	100kHz,1V	3.8(4.5)	23.0	12.0	30	R10
HRBC0402AR22□PG00	0.22	100kHz,1V	5.0(7.0)	16.0	11.0	20,30	R22
HRBC0402AR33□PG00	0.33	100kHz,1V	8.2(10.5)	12.0	10.5	20,30	R33
HRBC0402AR36□PG00	0.36	100kHz,1V	8.5(11.0)	11.0	9.0	20,30	R36
HRBC0402AR47□PG00	0.47	100kHz,1V	11.0(14.0)	10.0	7.0	20,30	R47
HRBC0402AR56□PG00	0.56	100kHz,1V	14.0(18.0)	9.5	6.5	20,30	R56
HRBC0402AR68□PG00	0.68	100kHz,1V	15.0(20.0)	8.0	6.0	20,30	R68
HRBC0402A1R0□PG00	1.00	100kHz,1V	23.0(27.0)	7.0	4.5	20,30	1R0
HRBC0402A1R2□PG00	1.20	100kHz,1V	28.0(33.0)	6.5	4.0	20,30	1R2
HRBC0402A1R5□PG00	1.50	100kHz,1V	30.0(36.0)	6.0	4.0	20,30	1R5
HRBC0402A2R2□PG00	2.20	100kHz,1V	49.0(58.0)	5.0	3.0	20,30	2R2
HRBC0402A3R3□PG00	3.30	100kHz,1V	78.0(87.0)	4.0	3.0	20,30	3R3
HRBC0402A4R7□PG00	4.70	100kHz,1V	105.0(140.0)	3.0	2.2	20,30	4R7
HRBC0402A6R8□PG00	6.80	100kHz,1V	120.0(175.0)	2.5	2.0	20,30	6R8
HRBC0402A100□PG00	10.00	100kHz,1V	185.0(220.0)	2.0	1.5	20,30	100

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △ T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0515A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0515AR22□PG00	0.22	100kHz,1V	7.2(8.5)	16.0	13.0	20,30	R22
HRBC0515AR47□PG00	0.47	100kHz,1V	12.0(13.8)	12.0	8.0	20,30	R47
HRBC0515AR68□PG00	0.68	100kHz,1V	15.0(20.0)	10.0	7.0	20,30	R68
HRBC0515A1R0□PG00	1.00	100kHz,1V	28.0(33.0)	8.0	5.0	20,30	1R0
HRBC0515A2R2□PG00	2.20	100kHz,1V	60.0(70.0)	5.0	4.0	20,30	2R2
HRBC0515A3R3□PG00	3.30	100kHz,1V	75.0(90.0)	4.0	3.0	20,30	3R2
HRBC0515A4R7□PG00	4.70	100kHz,1V	110.0(135.0)	3.5	2.5	20,30	4R7

HRBC0518A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0518AR47□PG00	0.47	100kHz,1V	8.2(9.0)	15.0	11.5	20,30	R47
HRBC0518AR68□PG00	0.68	100kHz,1V	11.5(12.5)	11.0	9.5	20,30	R68
HRBC0518A1R0□PG00	1.00	100kHz,1V	15.0(20.0)	8.0	6.0	20,30	1R0
HRBC0518A2R2□PG00	2.20	100kHz,1V	42.0(50.0)	6.0	4.0	20,30	2R2
HRBC0518A3R3□PG00	3.30	100kHz,1V	58.0(70.0)	5.0	3.5	20,30	3R3
HRBC0518A4R7□PG00	4.70	100kHz,1V	105.0(115.0)	4.0	3.0	20,30	4R7
HRBC0518A6R8□PG00	6.80	100kHz,1V	120.0(150.0)	2.8	2.5	20,30	6R8
HRBC0518A100□PG00	10.00	100kHz,1V	180.0(200.0)	2.0	1.5	20,30	100

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0502A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0502AR22□PG00	0.22	100kHz,1V	4.6(6.0)	16.5	13.0	20,30	R22
HRBC0502AR33□PG00	0.33	100kHz,1V	7.4(9.0)	15.0	12.0	20,30	R33
HRBC0502AR47□PG00	0.47	100kHz,1V	7.4(9.0)	12.0	11.5	20,30	R47
HRBC0502A1R0□PG00	1.00	100kHz,1V	15.0(20.0)	8.0	6.0	20,30	1R0
HRBC0502A1R5□PG00	1.50	100kHz,1V	22.0(26.0)	7.0	5.0	20,30	1R5
HRBC0502A2R2□PG00	2.20	100kHz,1V	42.0(50.0)	6.0	4.0	20,30	2R2
HRBC0502A2R7□PG00	2.70	100kHz,1V	58.0(70.0)	5.5	3.5	20,30	2R7
HRBC0502A3R3□PG00	3.30	100kHz,1V	58.0(70.0)	5.0	3.5	20,30	3R3
HRBC0502A4R7□PG00	4.70	100kHz,1V	85.0(95.0)	4.0	3.2	20,30	4R7
HRBC0502A6R8□PG00	6.80	100kHz,1V	120.0(150.0)	2.8	2.5	20,30	6R8
HRBC0502A100□PG00	10.00	100kHz,1V	170.0(200.0)	2.0	1.8	20,30	100

HRBC0503A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0503AR22□PG00	0.22	100kHz,1V	4.5(5.0)	25.0	14.0	20,30	R22
HRBC0503AR47□PG00	0.47	100kHz,1V	8.0(10.0)	14.0	11.5	20,30	R47
HRBC0503AR68□PG00	0.68	100kHz,1V	9.0(12.0)	12.0	9.0	20,30	R68
HRBC0503A1R0□PG00	1.00	100kHz,1V	12.0(16.0)	10.0	7.0	20,30	1R0
HRBC0503A1R5□PG00	1.50	100kHz,1V	15.0(20.0)	9.0	6.0	20,30	1R5
HRBC0503A2R2□PG00	2.20	100kHz,1V	28.0(35.0)	8.0	5.0	20,30	2R2
HRBC0503A3R3□PG00	3.30	100kHz,1V	38.0(45.0)	7.0	4.5	20,30	3R3
HRBC0503A4R7□PG00	4.70	100kHz,1V	52.0(60.0)	5.0	4.0	20,30	4R7
HRBC0503A6R8□PG00	6.80	100kHz,1V	62.0(80.0)	3.5	3.0	20,30	6R8
HRBC0503A100□PG00	10.00	100kHz,1V	110.0(130.0)	3.5	2.8	20,30	100

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △ T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0615A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0615AR10□PG00	0.10	100kHz,1V	2.8(3.1)	24.0	19.0	20,30	R10
HRBC0615AR68□PG00	0.68	100kHz,1V	12.5(13.5)	12.0	8.5	20,30	R68
HRBC0615A1R0□PG00	1.00	100kHz,1V	17(21.0)	7.0	5.5	20,30	1R0
HRBC0615A2R2□PG00	2.20	100kHz,1V	45.0(50.0)	6.0	5.0	20,30	2R2
HRBC0615A3R3□PG00	3.30	100kHz,1V	55.0(70.0)	5.0	3.0	20,30	3R3
HRBC0615A4R7□PG00	4.70	100kHz,1V	95.0(110.0)	4.5	2.8	20,30	4R7
HRBC0615A6R8□PG00	6.80	100kHz,1V	125.0(135.0)	3.5	2.5	20,30	6R8

HRBC0618A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0618AR10□PG00	0.10	100kHz,1V	2.1(2.8)	32.0	22.0	20,30	R10
HRBC0618AR22□PG00	0.22	100kHz,1V	3.0(3.5)	25.0	18.0	20,30	R22
HRBC0618AR33□PG00	0.33	100kHz,1V	5.6(6.8)	20.0	17.0	20,30	R33
HRBC0618AR68□PG00	0.68	100kHz,1V	8.7(12.0)	12.0	9.0	20,30	R68
HRBC0618A1R0□PG00	1.00	100kHz,1V	18.0(20.0)	11.0	8.0	20,30	1R0
HRBC0618A1R5□PG00	1.50	100kHz,1V	26.0(30.0)	10.0	7.0	20,30	1R5
HRBC0618A2R2□PG00	2.20	100kHz,1V	32.0(35.0)	8.0	6.0	20,30	2R2
HRBC0618A3R3□PG00	3.30	100kHz,1V	50.0(55.0)	7.0	4.0	20,30	3R3
HRBC0618A4R7□PG00	4.70	100kHz,1V	55.0(70.0)	5.0	3.5	20,30	4R7
HRBC0618A6R8□PG00	6.80	100kHz,1V	80.0(110.0)	4.0	2.8	20,30	6R8
HRBC0618A100□PG00	10.00	100kHz,1V	115.0(150.0)	3.0	2.3	20,30	100

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0602A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0602AR10□PG00	0.10	100kHz,1V	2.1(2.8)	32.0	22.0	20,30	R10
HRBC0602AR22□PG00	0.22	100kHz,1V	3.8(5.2)	25.0	18.0	20,30	R22
HRBC0602AR33□PG00	0.33	100kHz,1V	5.6(6.8)	20.0	17.0	20,30	R33
HRBC0602AR47□PG00	0.47	100kHz,1V	7.2(8.4)	16.0	11.0	20,30	R47
HRBC0602AR68□PG00	0.68	100kHz,1V	9.5(12.0)	15.0	9.0	20,30	R68
HRBC0602A1R0□PG00	1.00	100kHz,1V	18.0(20.0)	13.0	8.0	20,30	1R0
HRBC0602A2R2□PG00	2.20	100kHz,1V	32.0(35.0)	9.0	6.0	20,30	2R2
HRBC0602A3R3□PG00	3.30	100kHz,1V	50.0(55.0)	7.0	4.0	20,30	3R3
HRBC0602A4R7□PG00	4.70	100kHz,1V	55.0(70.0)	5.0	3.5	20,30	4R7
HRBC0602A5R6□PG00	5.60	100kHz,1V	63.0(80.0)	4.5	3.0	20,30	5R6
HRBC0602A6R8□PG00	6.80	100kHz,1V	82.0(110.0)	4.0	2.8	20,30	6R8
HRBC0602A100□PG00	10.00	100kHz,1V	105.0(120.0)	3.0	2.3	20,30	100
HRBC0602A150□PG00	15.00	100kHz,1V	147.0(170.0)	2.5	2.0	20,30	150

HRBC0624A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0624AR10□PG00	0.10	100kHz,1V	2.1(2.5)	35.0	22.0	20,30	R10
HRBC0624AR22□PG00	0.22	100kHz,1V	2.9(3.2)	27.0	20.0	20,30	R22
HRBC0624AR33□PG00	0.33	100kHz,1V	3.5(4.5)	24.0	18.0	20,30	R33
HRBC0624AR47□PG00	0.47	100kHz,1V	5.6(6.8)	21.0	15.0	20,30	R47
HRBC0624AR68□PG00	0.68	100kHz,1V	7.0(9.0)	18.0	9.0	20,30	R68
HRBC0624AR82□PG00	0.82	100kHz,1V	7.0(9.0)	18.0	9.0	20,30	R82
HRBC0624A1R0□PG00	1.00	100kHz,1V	11.0(13.0)	15.0	9.0	20,30	1R0
HRBC0624A1R5□PG00	1.50	100kHz,1V	16.5(20.0)	12.0	8.0	20,30	1R5
HRBC0624A2R2□PG00	2.20	100kHz,1V	22.0(28.0)	10.0	7.0	20,30	2R2
HRBC0624A3R3□PG00	3.30	100kHz,1V	42.0(50.0)	8.0	5.5	20,30	3R3
HRBC0624A4R7□PG00	4.70	100kHz,1V	47.0(55.0)	7.0	5.0	20,30	4R7
HRBC0624A6R8□PG00	6.80	100kHz,1V	82.0(90.0)	6.0	3.5	20,30	6R8
HRBC0624A100□PG00	10.00	100kHz,1V	89.0(101.0)	4.0	3.1	20,30	100
HRBC0624A150□PG00	15.00	100kHz,1V	120.0(160.0)	3.3	2.5	20,30	150
HRBC0624A220□PG00	22.00	100kHz,1V	217.0(230.0)	2.5	2.0	20,30	220

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △ T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0603A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0603AR10□PG00	0.10	100kHz,1V	1.8(2.2)	50.0	25.0	20,30	R10
HRBC0603AR22□PG00	0.22	100kHz,1V	2.5(2.8)	35.0	23.0	20,30	R22
HRBC0603AR33□PG00	0.33	100kHz,1V	3.0(3.5)	25.0	21.0	20,30	R33
HRBC0603AR47□PG00	0.47	100kHz,1V	3.6(4.5)	20.0	17.5	20,30	R47
HRBC0603AR56□PG00	0.56	100kHz,1V	3.7(4.5)	18.0	16.5	20,30	R56
HRBC0603AR68□PG00	0.68	100kHz,1V	5.0(5.5)	17.0	16.0	20,30	R68
HRBC0603A1R0□PG00	1.00	100kHz,1V	7.0(8.0)	15.3	12.0	20,30	1R0
HRBC0603A1R5□PG00	1.50	100kHz,1V	10.5(12.0)	13.0	9.0	20,30	1R5
HRBC0603A2R2□PG00	2.20	100kHz,1V	13.5(16.0)	10.2	8.0	20,30	2R2
HRBC0603A3R3□PG00	3.30	100kHz,1V	21.0(25.0)	8.00	6.5	20,30	3R3
HRBC0603A4R7□PG00	4.70	100kHz,1V	28.0(35.0)	6.60	5.5	20,30	4R7
HRBC0603A5R6□PG00	5.60	100kHz,1V	45.0(55.0)	7.00	5.0	20,30	5R6
HRBC0603A6R8□PG00	6.80	100kHz,1V	45.0(55.0)	6.10	5.0	20,30	6R8
HRBC0603A8R2□PG00	8.20	100kHz,1V	60.0(68.0)	6.00	4.0	20,30	8R2
HRBC0603A100□PG00	10.00	100kHz,1V	60.0(68.0)	5.00	4.0	20,30	100
HRBC0603A150□PG00	15.00	100kHz,1V	95.0(110.0)	4.50	2.8	20,30	150
HRBC0603A220□PG00	22.00	100kHz,1V	121.0(167.0)	3.00	2.5	20,30	220
HRBC0603A330□PG00	33.00	100kHz,1V	218.0(245.0)	2.00	1.5	20,30	330

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0604A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0604AR15□PG00	0.15	100kHz,1V	0.65(1.0)	48.0	25.0	20,30	R15
HRBC0604AR22□PG00	0.22	100kHz,1V	2.5(3.0)	35.0	23.0	20,30	R22
HRBC0604AR33□PG00	0.33	100kHz,1V	2.8(3.5)	25.0	21.0	20,30	R33
HRBC0604AR47□PG00	0.47	100kHz,1V	3.5(4.5)	21.0	17.0	20,30	R47
HRBC0604AR56□PG00	0.56	100kHz,1V	4.4(5.5)	18.0	16.0	20,30	R56
HRBC0604AR68□PG00	0.68	100kHz,1V	4.4(5.5)	17.0	14.0	20,30	R68
HRBC0604A1R0□PG00	1.00	100kHz,1V	7.0(8.0)	15.0	10.0	20,30	1R0
HRBC0604A1R5□PG00	1.50	100kHz,1V	7.7(9.0)	13.0	9.0	20,30	1R5
HRBC0604A2R2□PG00	2.20	100kHz,1V	13.5(16)	11.0	8.0	20,30	2R2
HRBC0604A3R3□PG00	3.30	100kHz,1V	14.0(20.0)	9.0	6.5	20,30	3R3
HRBC0604A4R7□PG00	4.70	100kHz,1V	22.0(25.0)	8.0	6.0	20,30	4R7
HRBC0604A6R8□PG00	6.80	100kHz,1V	35.0(45.0)	7.0	5.0	20,30	6R8
HRBC0604A8R2□PG00	8.20	100kHz,1V	46.0(55.0)	6.5	4.0	20,30	8R2
HRBC0604A100□PG00	10.00	100kHz,1V	53.0(65.0)	6.0	3.5	20,30	100
HRBC0604A150□PG00	15.00	100kHz,1V	70.0(80.0)	4.5	3.0	20,30	150
HRBC0604A220□PG00	22.00	100kHz,1V	100.0(120.0)	3.5	2.5	20,30	220
HRBC0604A330□PG00	33.00	100kHz,1V	165.0(200.0)	3.0	2.0	20,30	330
HRBC0604A470□PG00	47.00	100kHz,1V	230.0(260.0)	2.0	1.5	20,30	470

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range － 40℃～ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △ T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0605A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0605AR15□PG00	0.15	100kHz,1V	0.65(1.0)	50.0	30.0	20,30	R15
HRBC0605AR22□PG00	0.22	100kHz,1V	1.9(3.0)	43.0	25.0	20,30	R22
HRBC0605AR36□PG00	0.36	100kHz,1V	2.3(3.5)	30.0	22.0	20,30	R36
HRBC0605AR47□PG00	0.47	100kHz,1V	3.2(4.5)	24.0	18.0	20,30	R47
HRBC0605AR82□PG00	0.82	100kHz,1V	5.8(6.5)	20.0	14.0	20,30	R82
HRBC0605A1R0□PG00	1.00	100kHz,1V	7.2(8.0)	17.0	12.0	20,30	1R0
HRBC0605A1R5□PG00	1.50	100kHz,1V	7.7(9.0)	14.0	10.0	20,30	1R5
HRBC0605A2R2□PG00	2.20	100kHz,1V	10.5(12.5)	12.0	9.5	20,30	2R2
HRBC0605A2R7□PG00	2.70	100kHz,1V	16.0(20.0)	11.0	8.5	20,30	2R7
HRBC0605A3R3□PG00	3.30	100kHz,1V	16.0(20.0)	9.0	8.5	20,30	3R3
HRBC0605A4R7□PG00	4.70	100kHz,1V	22.0(25.0)	8.0	6.5	20,30	4R7
HRBC0605A6R8□PG00	6.80	100kHz,1V	30.0(35.5)	7.5	6.0	20,30	6R8
HRBC0605A100□PG00	10.00	100kHz,1V	53.0(60.0)	5.5	4.5	20,30	100
HRBC0605A150□PG00	15.00	100kHz,1V	76.0(85.0)	5.0	3.5	20,30	150
HRBC0605A220□PG00	22.00	100kHz,1V	101.0(130.0)	4.0	2.5	20,30	220
HRBC0605A330□PG00	33.00	100kHz,1V	158.0(176.4)	3.0	2.0	20,30	330
HRBC0605A470□PG00	47.00	100kHz,1V	190.0(225.0)	2.5	1.8	20,30	470

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0705A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0705A1R0□PG00	1.00	100kHz,1V	4.0(5.0)	20.0	14.0	20,30	1R0
HRBC0705A1R5□PG00	1.50	100kHz,1V	6.5(7.5)	16.0	11.0	20,30	1R5
HRBC0705A2R2□PG00	2.20	100kHz,1V	7.6(8.5)	14.0	10.0	20,30	2R2
HRBC0705A3R3□PG00	3.30	100kHz,1V	14.0(16.0)	13.0	8.0	20,30	3R3
HRBC0705A4R7□PG00	4.70	100kHz,1V	19.0(20.9)	12.5	7.0	20,30	4R7
HRBC0705A6R8□PG00	6.80	100kHz,1V	24.2(28)	10.0	6.0	20,30	6R8
HRBC0705A8R2□PG00	8.20	100kHz,1V	29.0(32.0)	9.0	5.5	20,30	6R8
HRBC0705A100□PG00	10.00	100kHz,1V	34.5(38.0)	6.9	5.2	20,30	100
HRBC0705A150□PG00	15.00	100kHz,1V	60.0(66.0)	6.5	3.8	20,30	150
HRBC0705A220□PG00	22.00	100kHz,1V	85.0100.0)	4.5	3.3	20,30	220
HRBC0705A330□PG00	33.00	100kHz,1V	153.0(170.0)	4.0	2.5	20,30	330
HRBC0705A470□PG00	47.00	100kHz,1V	160.0(171.6)	3.0	2.4	20,30	470
HRBC0705A680□PG00	68.00	100kHz,1V	222.0(255.0)	2.5	1.8	20,30	680

HRBC1003A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1003AR22□PG00	0.22	100kHz,1V	0.7(1.0)	40.0	30.0	20,30	R22
HRBC1003AR36□PG00	0.36	100kHz,1V	1.4(1.6)	35.0	23.0	20,30	R36
HRBC1003AR47□PG00	0.47	100kHz,1V	1.5(1.7)	24.0	18.0	20,30	R47
HRBC1003AR68□PG00	0.68	100kHz,1V	2.6(3.2)	23.0	17.0	20,30	R68
HRBC1003A1R0□PG00	1.00	100kHz,1V	5.0(7.0)	19.0	13.0	20,30	1R0
HRBC1003A1R5□PG00	1.50	100kHz,1V	7.2(9.0)	18.0	10.0	20,30	1R5
HRBC1003A2R2□PG00	2.20	100kHz,1V	8.0(10.0)	16.0	9.0	20,30	2R2
HRBC1003A3R3□PG00	3.30	100kHz,1V	14.0(20.0)	12.0	7.0	20,30	3R3
HRBC1003A4R7□PG00	4.70	100kHz,1V	24.0(28.0)	11.0	6.0	20,30	4R7
HRBC1003A6R8□PG00	6.80	100kHz,1V	34.0(45.0)	8.0	5.0	20,30	6R8
HRBC1003A100□PG00	10.00	100kHz,1V	54.0(58.0)	7.5	4.0	20,30	100
HRBC1003A150□PG00	15.00	100kHz,1V	65.0(75.0)	5.0	3.5	20,30	150
HRBC1003A220□PG00	22.00	100kHz,1V	75.0(90.0)	4.0	2.5	20,30	220

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1004A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1004AR15□PG00	0.15	100kHz,1V	0.5(0.6)	65.0	48.0	20,30	R15
HRBC1004AR22□PG00	0.22	100kHz,1V	0.6(0.8)	55.0	35.0	20,30	R22
HRBC1004AR36□PG00	0.36	100kHz,1V	1.1(1.4)	50.0	30.0	20,30	R36
HRBC1004AR47□PG00	0.47	100kHz,1V	1.4(1.6)	35.0	25.0	20,30	R47
HRBC1004AR56□PG00	0.56	100kHz,1V	1.5(1.7)	30.0	23.0	20,30	R56
HRBC1004AR68□PG00	0.68	100kHz,1V	1.7(2.4)	30.0	20.0	20,30	R68
HRBC1004A1R0□PG00	1.00	100kHz,1V	2.8(3.5)	26.0	20.0	20,30	1R0
HRBC1004A1R5□PG00	1.50	100kHz,1V	4.5(5.8)	22.0	16.0	20,30	1R5
HRBC1004A2R2□PG00	2.20	100kHz,1V	6.5(7.5)	18.0	12.0	20,30	2R2
HRBC1004A3R3□PG00	3.30	100kHz,1V	10.5(11.6)	16.0	11.0	20,30	3R3
HRBC1004A4R7□PG00	4.70	100kHz,1V	13.5(16.5)	15.0	9.0	20,30	4R7
HRBC1004A5R6□PG00	5.60	100kHz,1V	18.0(22.0)	12.0	7.0	20,30	5R6
HRBC1004A6R8□PG00	6.80	100kHz,1V	20.0(25.0)	11.0	7.0	20,30	6R8
HRBC1004A8R2□PG00	8.20	100kHz,1V	33.0(36.0)	9.0	6.0	20,30	8R2
HRBC1004A100□PG00	10.00	100kHz,1V	35.0(40.0)	8.5	6.0	20,30	100
HRBC1004A150□PG00	15.00	100kHz,1V	42.0(45.0)	7.0	6.0	20,30	150
HRBC1004A220□PG00	22.00	100kHz,1V	62.0(68.0)	5.6	5.1	20,30	220
HRBC1004A330□PG00	33.00	100kHz,1V	90.0(100.0)	5.0	3.5	20,30	330
HRBC1004A470□PG00	47.00	100kHz,1V	127.0(145.0)	4.0	3.3	20,30	470

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1005A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1005AR15□PG00	0.15	100kHz,1V	0.5(0.6)	65.0	48.0	20,30	R15
HRBC1005AR22□PG00	0.22	100kHz,1V	0.5(0.6)	60.0	40.0	20,30	R22
HRBC1005AR36□PG00	0.36	100kHz,1V	0.9(1.1)	55.0	38.0	20,30	R36
HRBC1005AR47□PG00	0.47	100kHz,1V	1.1(1.3)	50.0	36.0	20,30	R47
HRBC1005AR68□PG00	0.68	100kHz,1V	1.6(2.0)	40.0	25.0	20,30	R68
HRBC1005AR82□PG00	0.82	100kHz,1V	2.0(2.5)	34.0	20.0	20,30	R82
HRBC1005A1R0□PG00	1.00	100kHz,1V	2.56(2.8)	30.0	22.0	20,30	1R0
HRBC1005A1R5□PG00	1.50	100kHz,1V	3.9(4.6)	25.0	18.0	20,30	1R5
HRBC1005A2R2□PG00	2.20	100kHz,1V	6.4(6.86)	20.0	17.0	20,30	2R2
HRBC1005A3R3□PG00	3.30	100kHz,1V	10.4(11.56)	16.0	12.0	20,30	3R3
HRBC1005A4R7□PG00	4.70	100kHz,1V	13.0(16.0)	15.0	10.0	20,30	4R7
HRBC1005A5R6□PG00	5.60	100kHz,1V	13.5(18.0)	14.0	9.0	20,30	5R6
HRBC1005A6R8□PG00	6.80	100kHz,1V	17.0(22.0)	12.0	8.0	20,30	6R8
HRBC1005A8R2□PG00	8.20	100kHz,1V	22.0(25.0)	11.0	7.0	20,30	8R2
HRBC1005A100□PG00	10.00	100kHz,1V	26.0(30.0)	10.0	6.0	20,30	100
HRBC1005A150□PG00	15.00	100kHz,1V	39.0(45.0)	8.0	5.0	20,30	150
HRBC1005A220□PG00	22.00	100kHz,1V	55.0(62.0)	7.0	4.5	20,30	220
HRBC1005A330□PG00	33.00	100kHz,1V	90.0(95.0)	6.0	4.0	20,30	330
HRBC1005A470□PG00	47.00	100kHz,1V	127.0(145.0)	5.0	3.5	20,30	470
HRBC1005A680□PG00	68.00	100kHz,1V	215.0(258.0)	5.0	3.0	20,30	680
HRBC1005A820□PG00	82.00	100kHz,1V	222.0(280.0)	4.5	2.0	20,30	820
HRBC1005A101□PG00	100.00	100kHz,1V	222.0(280.0)	4.0	2.0	20,30	101

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1235A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1235AR15□PG00	0.15	100kHz,1V	0.7(0.9)	65.0	40.0	20,30	R15
HRBC1235AR22□PG00	0.22	100kHz,1V	0.9(1.2)	60.0	35.0	20,30	R22
HRBC1235AR33□PG00	0.33	100kHz,1V	1.1(1.5)	55.0	32.0	20,30	R33
HRBC1235AR47□PG00	0.47	100kHz,1V	1.1(1.5)	45.0	30.0	20,30	R47
HRBC1235AR68□PG00	0.68	100kHz,1V	2.1(2.5)	40.0	28.0	20,30	R68
HRBC1235A1R0□PG00	1.00	100kHz,1V	3.2(3.5)	28.0	24.0	20,30	1R0
HRBC1235A1R5□PG00	1.50	100kHz,1V	5.1(5.5)	25.0	19.0	20,30	1R5
HRBC1235A2R2□PG00	2.20	100kHz,1V	7.0(8.0)	22.0	16.0	20,30	2R2
HRBC1235A3R3□PG00	3.30	100kHz,1V	10.0(12.0)	20.0	12.0	20,30	3R3
HRBC1235A4R7□PG00	4.70	100kHz,1V	16.0(20.0)	14.0	10.0	20,30	4R7
HRBC1235A6R8□PG00	6.80	100kHz,1V	19.0(22.0)	13.0	9.0	20,30	6R8
HRBC1235A100□PG00	10.00	100kHz,1V	28.0(35.0)	10.0	6.0	20,30	100
HRBC1235A150□PG00	15.00	100kHz,1V	70.0(90.0)	7.0	4.0	20,30	150
HRBC1235A220□PG00	22.00	100kHz,1V	99.0(110.0)	5.5	3.0	20,30	220

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1205A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1205AR22□PG00	0.22	100kHz,1V	0.5(0.7)	60.0	40.0	20,30	R22
HRBC1205AR36□PG00	0.36	100kHz,1V	0.7(0.9)	55.0	38.0	20,30	R36
HRBC1205AR47□PG00	0.47	100kHz,1V	1.0(1.3)	55.0	31.0	20,30	R47
HRBC1205AR68□PG00	0.68	100kHz,1V	1.3(1.5)	50.0	30.0	20,30	R68
HRBC1205AR82□PG00	0.82	100kHz,1V	1.7(2.1)	45.0	29.0	20,30	R82
HRBC1205A1R0□PG00	1.00	100kHz,1V	1.8(2.5)	40.0	28.0	20,30	1R0
HRBC1205A1R5□PG00	1.50	100kHz,1V	2.7(4.1)	35.0	21.0	20,30	1R5
HRBC1205A2R2□PG00	2.20	100kHz,1V	4.5(5.5)	24.0	18.0	20,30	2R2
HRBC1205A3R3□PG00	3.30	100kHz,1V	7.5(9.0)	22.0	15.0	20,30	3R3
HRBC1205A4R7□PG00	4.70	100kHz,1V	11.0(12.0)	18.0	11.0	20,30	4R7
HRBC1205A6R8□PG00	6.80	100kHz,1V	15.0(18.0)	17.0	11.0	20,30	6R8
HRBC1205A8R2□PG00	8.20	100kHz,1V	19.0(23.0)	16.0	10.0	20,30	8R2
HRBC1205A100□PG00	10.00	100kHz,1V	23.0(30.0)	12.0	7.0	20,30	100
HRBC1205A150□PG00	15.00	100kHz,1V	46.0(50.0)	10.0	6.0	20,30	150
HRBC1205A220□PG00	22.00	100kHz,1V	60.0(70.0)	7.0	4.0	20,30	220
HRBC1205A330□PG00	33.00	100kHz,1V	72.0(80.0)	6.0	3.0	20,30	330
HRBC1205A470□PG00	47.00	100kHz,1V	85.0(100.0)	5.0	2.5	20,30	470
HRBC1205A560□PG00	56.00	100kHz,1V	154.0(180.0)	4.5	2.0	20,30	560
HRBC1205A680□PG00	68.00	100kHz,1V	154.0(180.0)	4.0	2.0	20,30	680

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △ T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1265A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1265AR22□PG00	0.22	100kHz,1V	0.5(0.7)	70.0	40.0	20,30	R22
HRBC1265AR33□PG00	0.33	100kHz,1V	0.56(0.8)	70.0	38.0	20,30	R33
HRBC1265AR47□PG00	0.47	100kHz,1V	0.85(1.3)	60.0	35.0	20,30	R47
HRBC1265AR68□PG00	0.68	100kHz,1V	1.3(1.5)	51.0	30.0	20,30	R68
HRBC1265A1R0□PG00	1.00	100kHz,1V	1.5(2.0)	50.0	30.0	20,30	1R0
HRBC1265A2R2□PG00	2.20	100kHz,1V	3.5(4.5)	35.0	18.0	20,30	2R2
HRBC1265A3R3□PG00	3.30	100kHz,1V	5.8(7.5)	25.0	17.0	20,30	3R3
HRBC1265A4R7□PG00	4.70	100kHz,1V	6.5(9.0)	22.0	14.0	20,30	4R7
HRBC1265A5R6□PG00	5.60	100kHz,1V	9.5(12.0)	19.0	12.0	20,30	5R6
HRBC1265A6R8□PG00	6.80	100kHz,1V	11.0(14.0)	18.0	11.5	20,30	6R8
HRBC1265A100□PG00	10.00	100kHz,1V	16.0(20.0)	15.5	10.0	20,30	100
HRBC1265A150□PG00	15.00	100kHz,1V	27.5(30.0)	12.0	7.0	20,30	150
HRBC1265A220□PG00	22.00	100kHz,1V	30.0(36.0)	9.0	6.0	20,30	220
HRBC1265A330□PG00	33.00	100kHz,1V	48.0(55.0)	8.0	5.0	20,30	330
HRBC1265A470□PG00	47.00	100kHz,1V	67.0(80.0)	6.0	4.0	20,30	470
HRBC1265A680□PG00	68.00	100kHz,1V	94.0(115).0	5.0	3.0	20,30	680

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1704A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1704AR33□PN00	0.33	100kHz,1V	1.16(1.28)	60.0	56.0	20,30	R33
HRBC1704A1R5□PN00	1.50	100kHz,1V	4.1(4.5)	32.0	18.0	20,30	1R5
HRBC1704A5R6□PN00	5.60	100kHz,1V	10.4(13.5)	21.00	15.00	20,30	5R6

HRBC1707A series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1707AR47□PG00	0.47	100kHz,1V	1.0(1.3)	70.0	35.0	20,30	R47
HRBC1707A1R0□PG00	1.00	100kHz,1V	1.2(1.5)	60.0	28.0	20,30	1R0
HRBC1707A1R5□PG00	1.50	100kHz,1V	1.8(2.5)	50.0	25.0	20,30	1R5
HRBC1707A2R2□PG00	2.20	100kHz,1V	2.0(3.0)	40.0	20.0	20,30	2R2
HRBC1707A3R3□PG00	3.30	100kHz,1V	2.8(3.5)	34.0	19.0	20,30	3R3
HRBC1707A4R7□PG00	4.70	100kHz,1V	4.2(5.0)	28.0	17.5	20,30	4R7
HRBC1707A6R8□PG00	6.80	100kHz,1V	6.5(7.5)	24.0	13.0	20,30	6R8
HRBC1707A8R2□PG00	8.20	100kHz,1V	8.2(10.0)	22.0	12.5	20,30	8R2
HRBC1707A100□PG00	10.0	100kHz,1V	9.0(13.0)	21.0	12.0	20,30	100
HRBC1707A150□PG00	15.0	100kHz,1V	14.5(18.0)	18.0	11.0	20,30	150
HRBC1707A220□PG00	22.0	100kHz,1V	20.5(25.0)	13.0	10.0	20,30	220
HRBC1707A330□PG00	33.0	100kHz,1V	30.0(42.0)	10.0	7.0	20,30	330
HRBC1707A470□PG00	47.0	100kHz,1V	41.0(52.0)	9.0	6.0	20,30	470
HRBC1707A680□PG00	68.0	100kHz,1V	50.0(85.0)	6.5	5.2	20,30	680

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

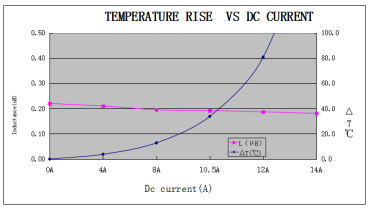
2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △ T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Characteristic Curve

HRBC0415A series



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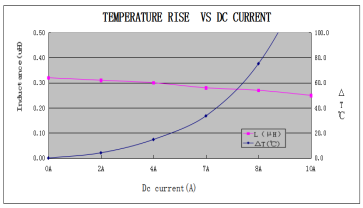

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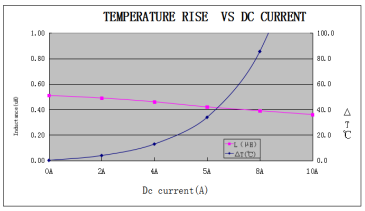

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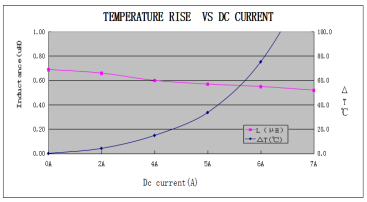

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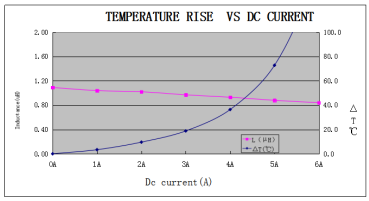

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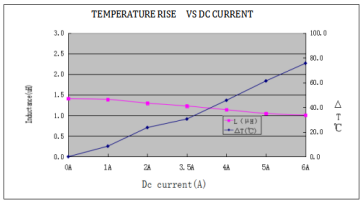

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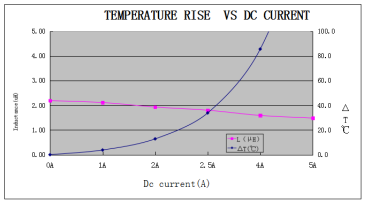

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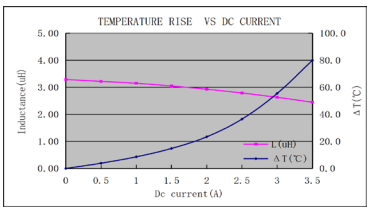

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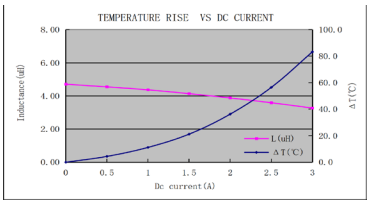

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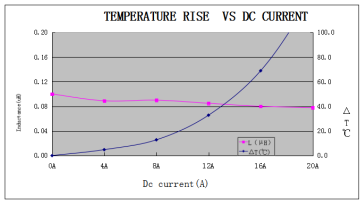
Product Characteristic Curve

HRBC0402A series



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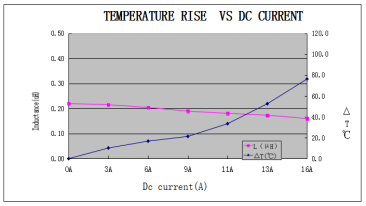

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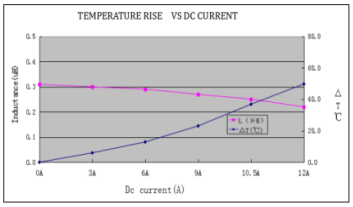

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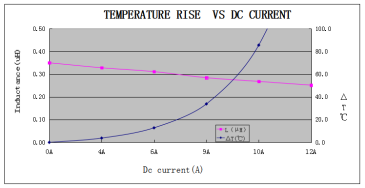

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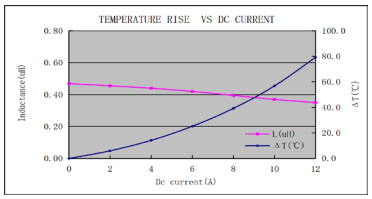

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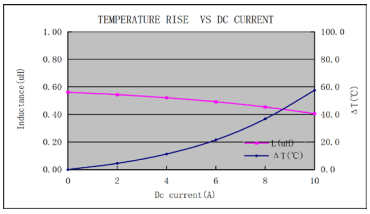

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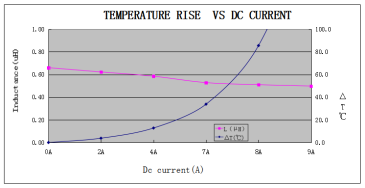

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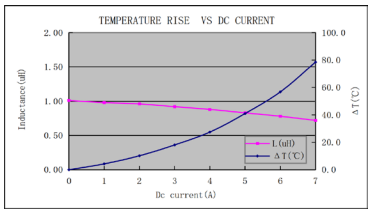

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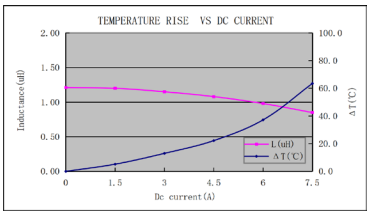

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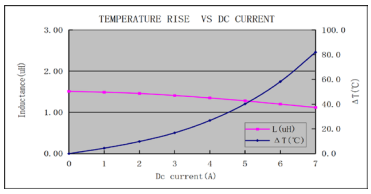

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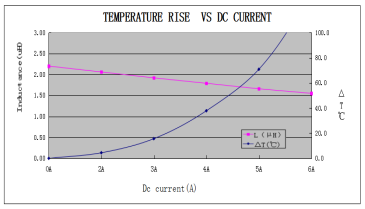

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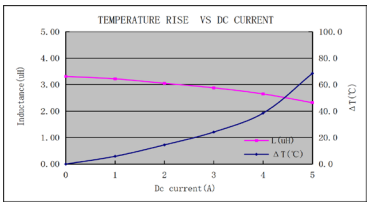

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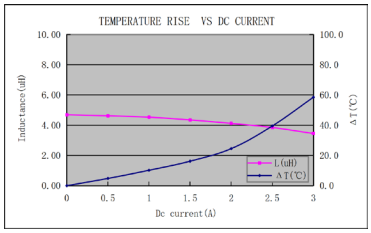

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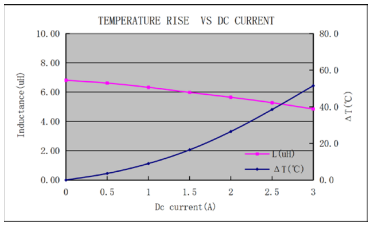

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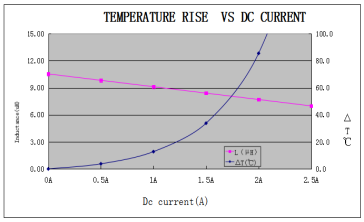

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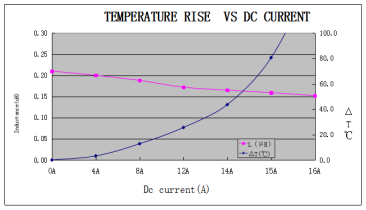
Product Characteristic Curve

HRBC0515A series



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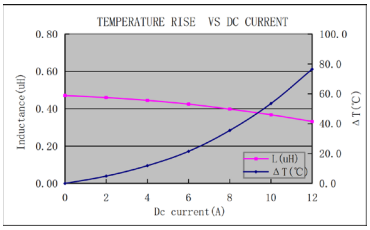

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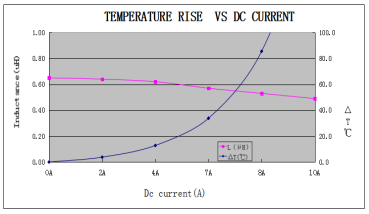

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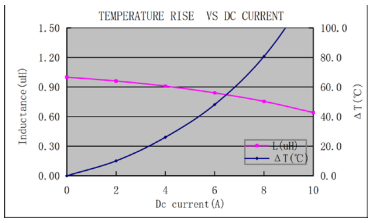

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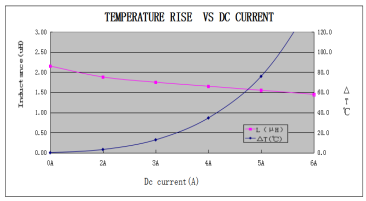

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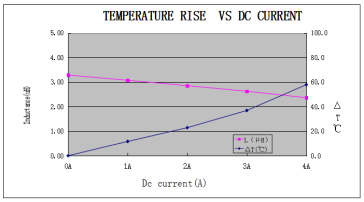

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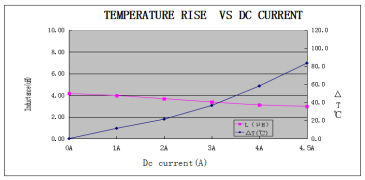

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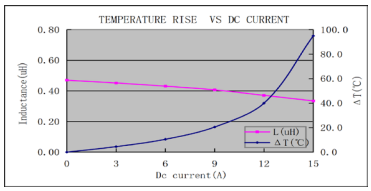
Product Characteristic Curve

HRBC0518A series



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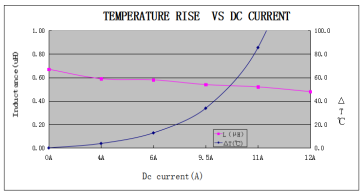

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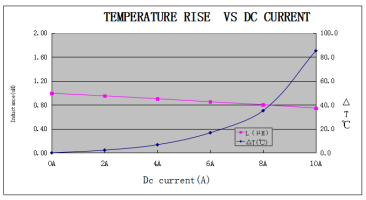

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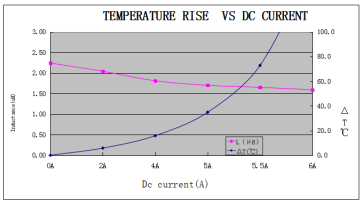

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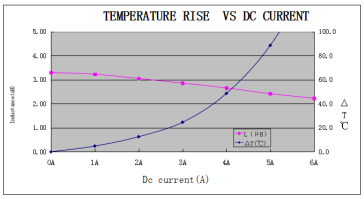

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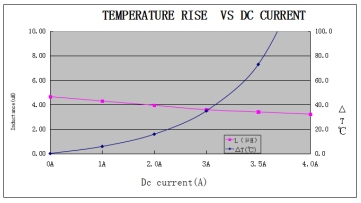

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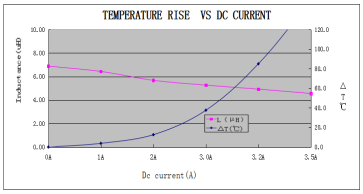

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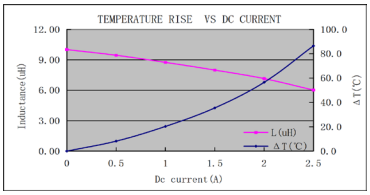

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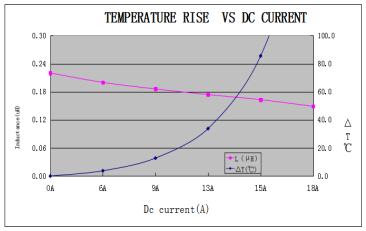
Product Characteristic Curve

HRBC0502A series



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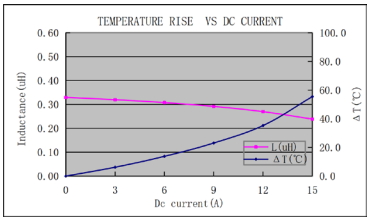

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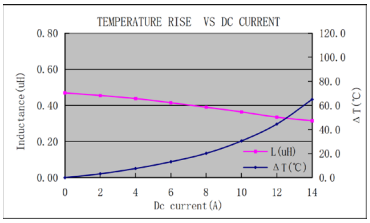

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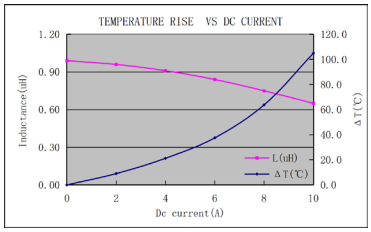

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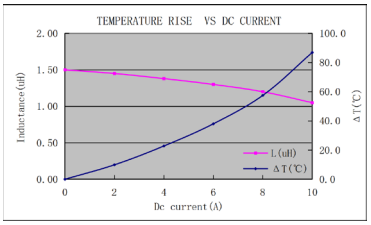

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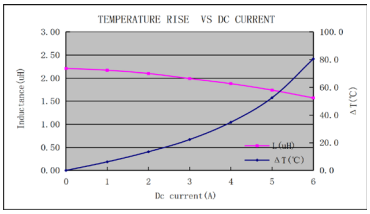

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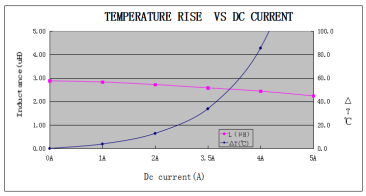

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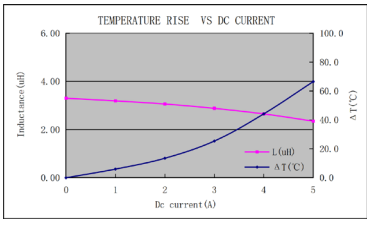

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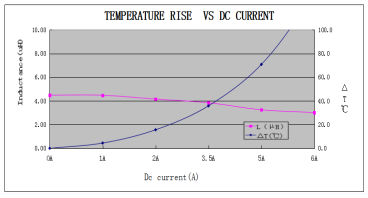

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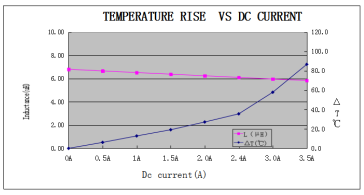

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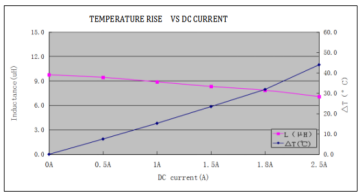

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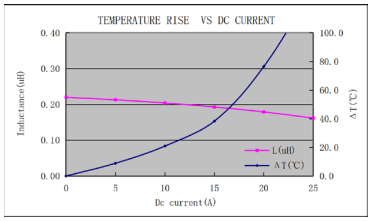
Product Characteristic Curve

HRBC0503A series



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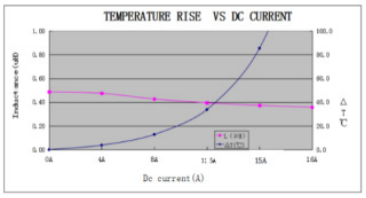

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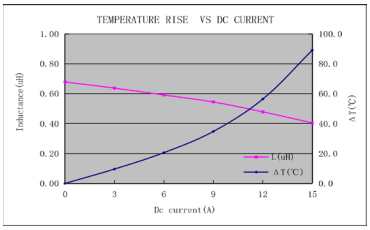

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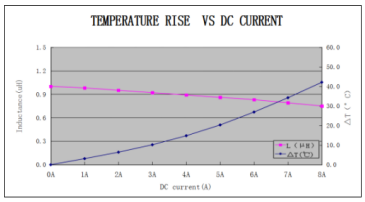

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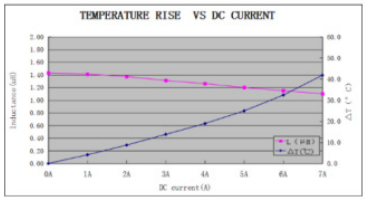

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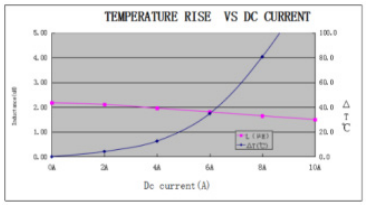

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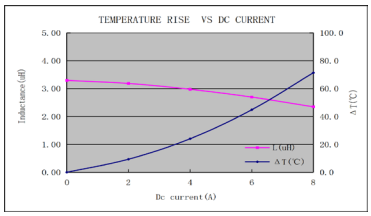

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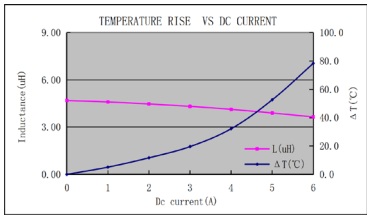

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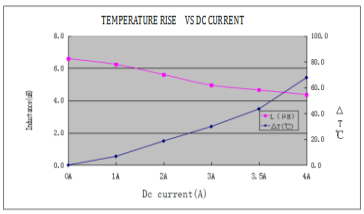

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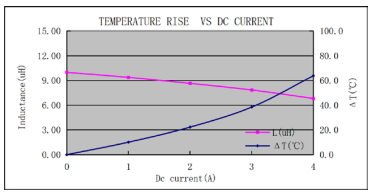

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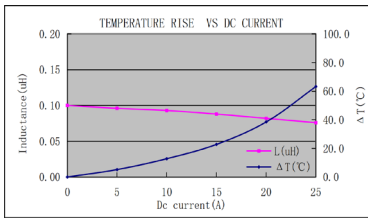
Product Characteristic Curve

HRBC0615A series



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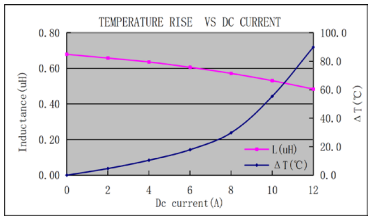

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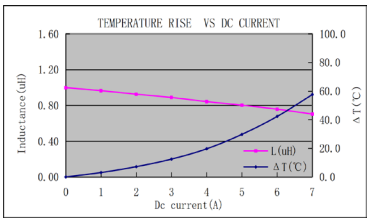

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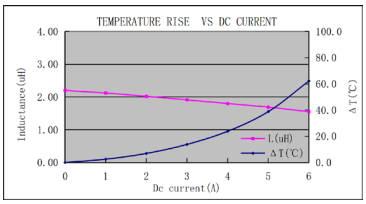

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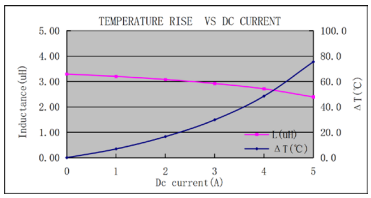

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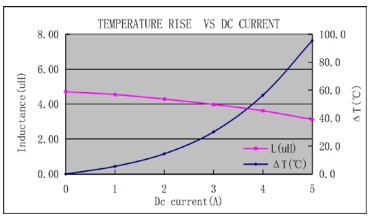

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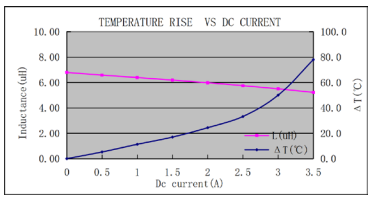

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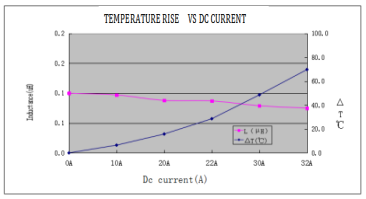
Product Characteristic Curve

HRBC0618A series



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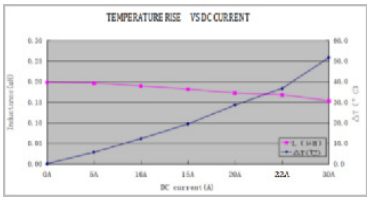

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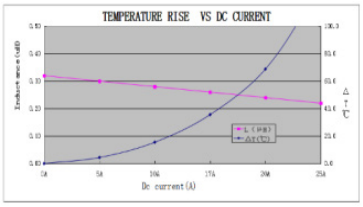

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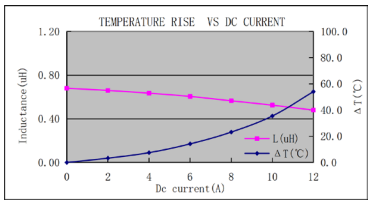

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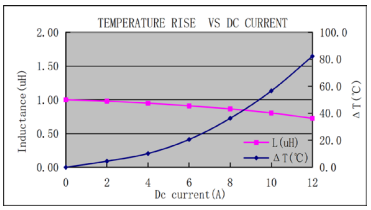

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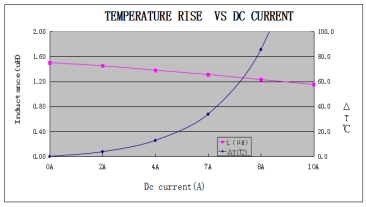

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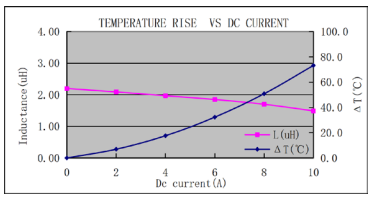

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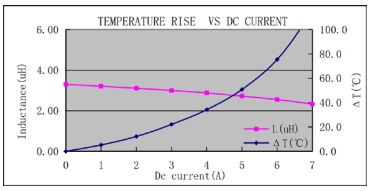

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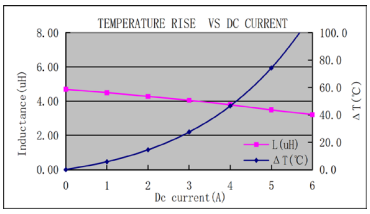

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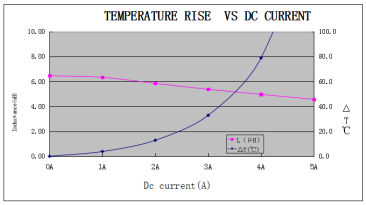

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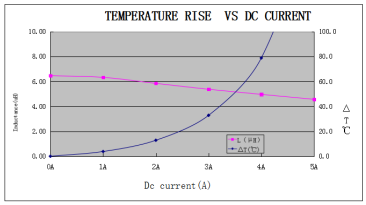

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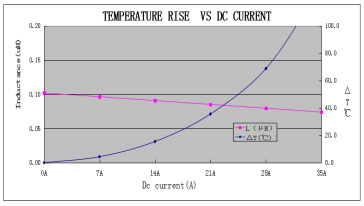
Product Characteristic Curve

HRBC0602A series



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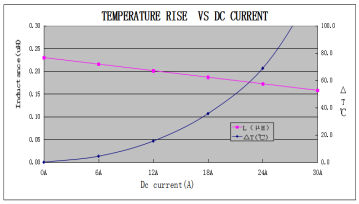

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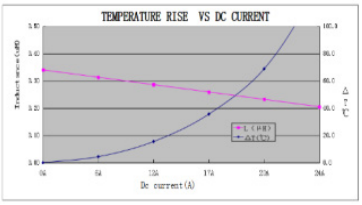

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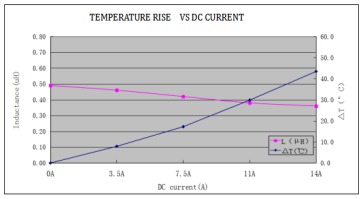

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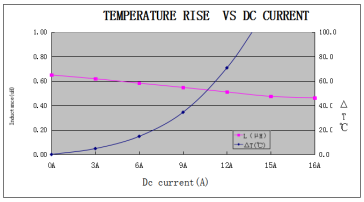

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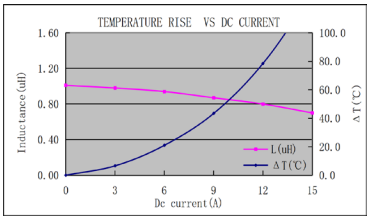

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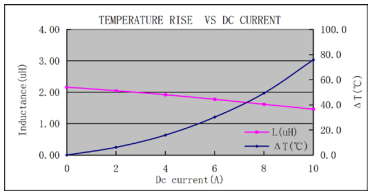

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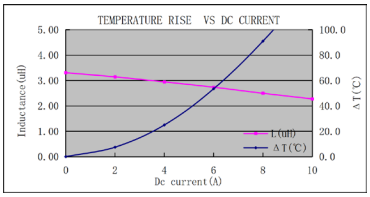

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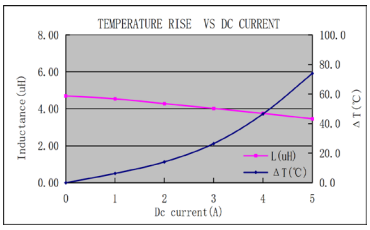

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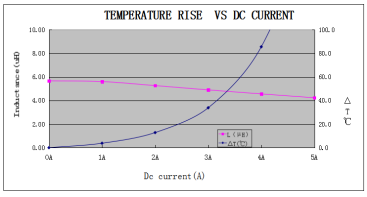

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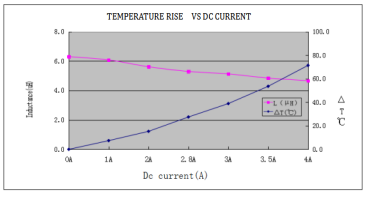

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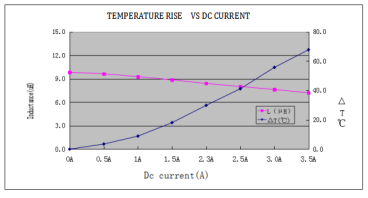

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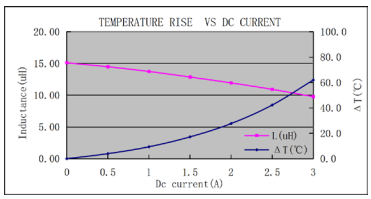

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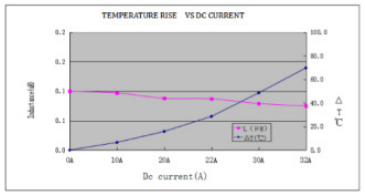
Product Characteristic Curve

HRBC0624A series



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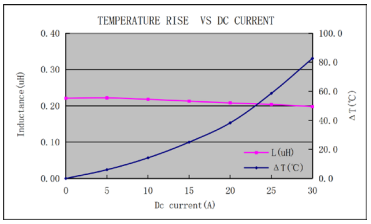

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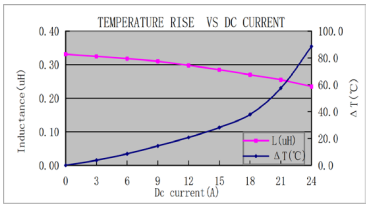

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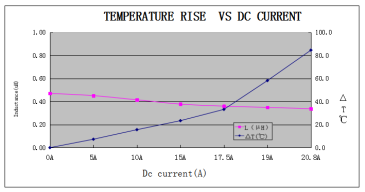

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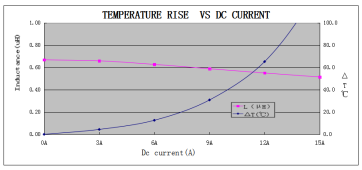

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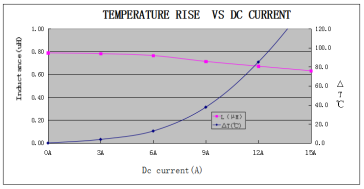

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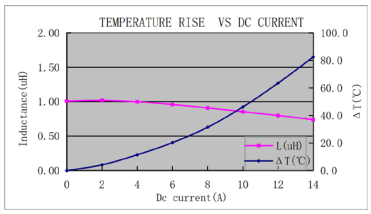

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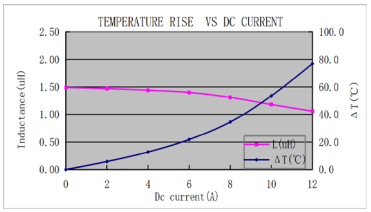

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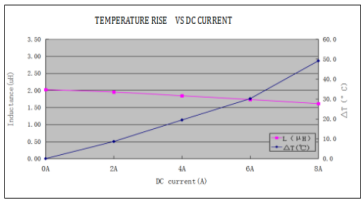

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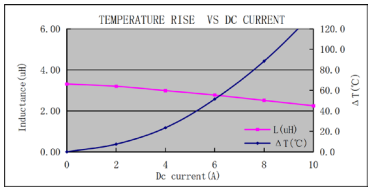

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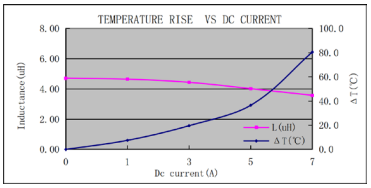

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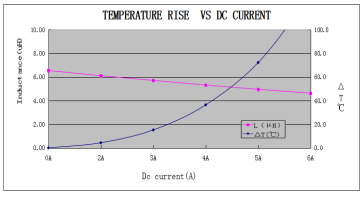

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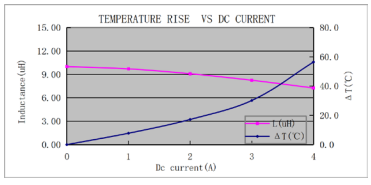

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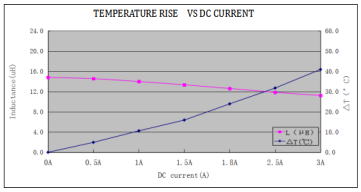

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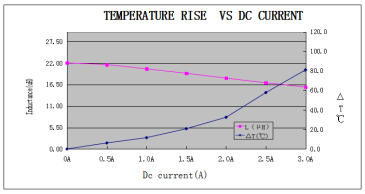

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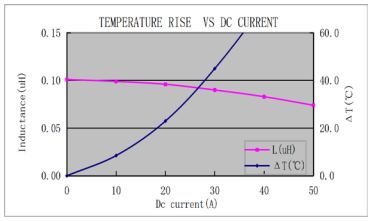
Product Characteristic Curve

HRBC0603A series



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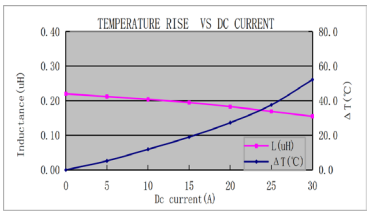

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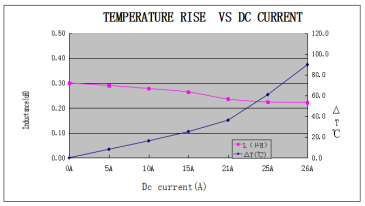

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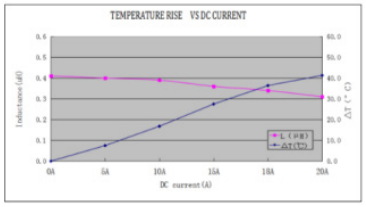

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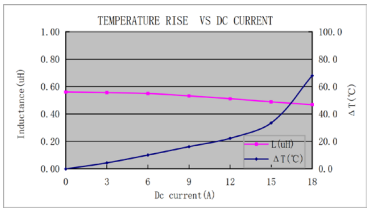

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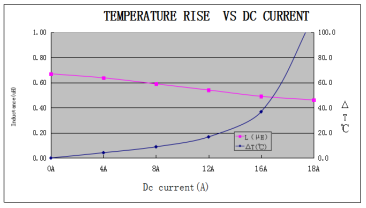

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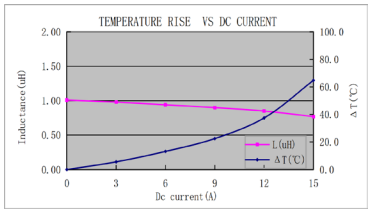

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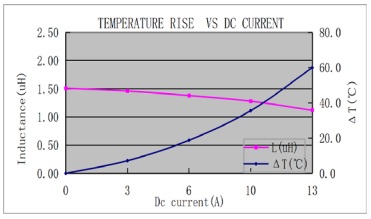

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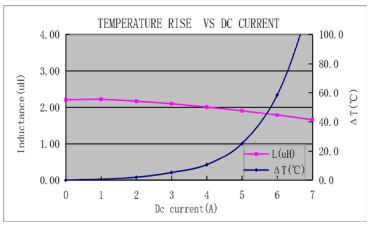

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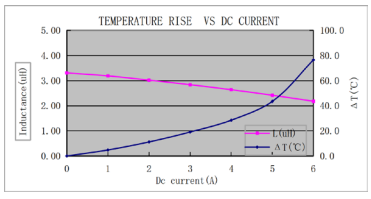

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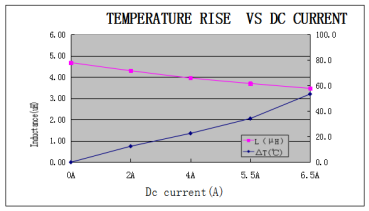

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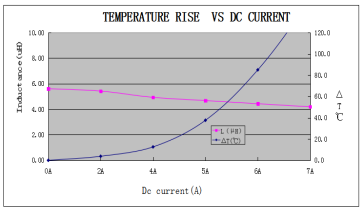

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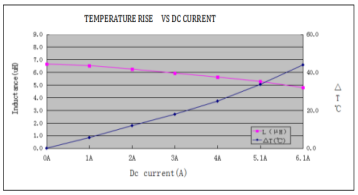

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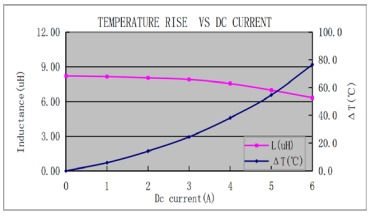

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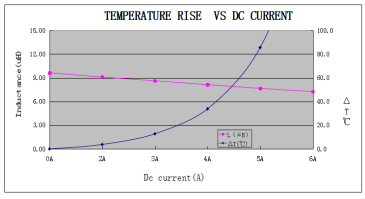

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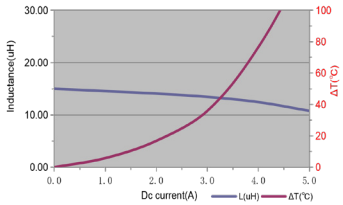
Product Characteristic Curve

HRBC0603A series



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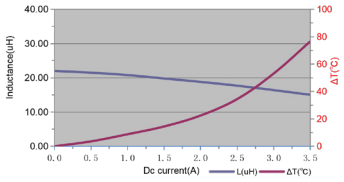

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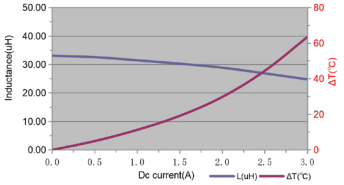

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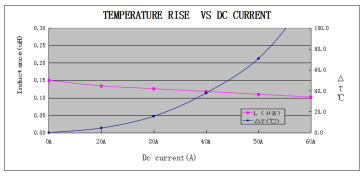
Product Characteristic Curve

HRBC0604A series



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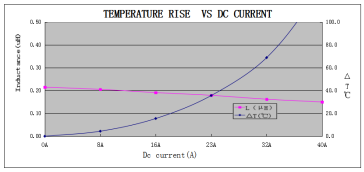

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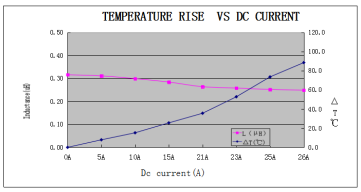

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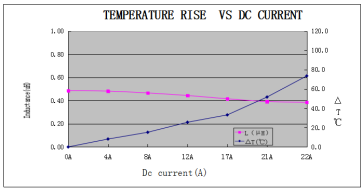

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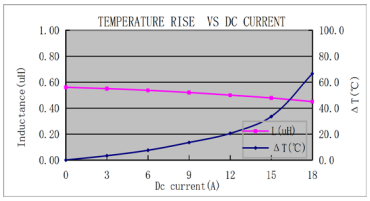

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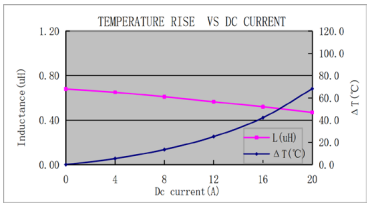

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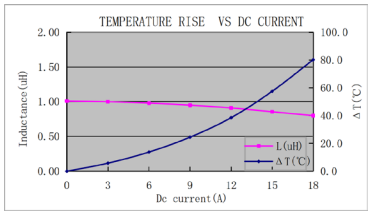

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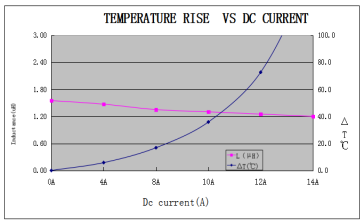

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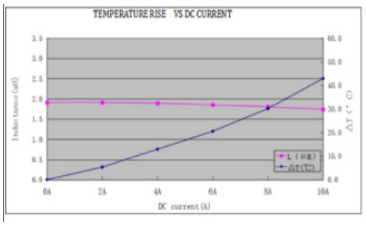

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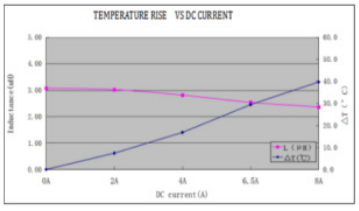

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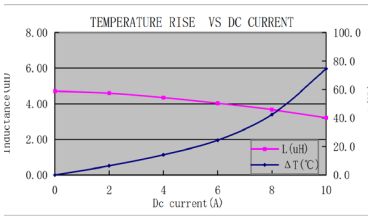

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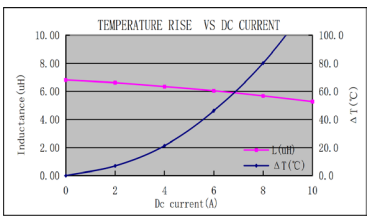

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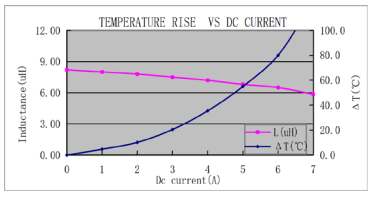

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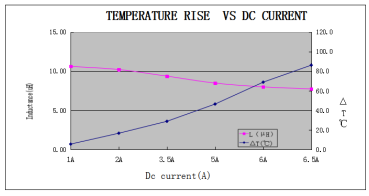

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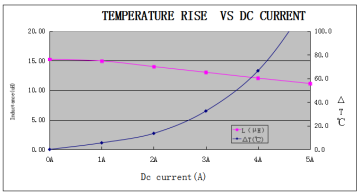

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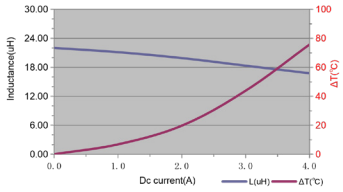
Product Characteristic Curve

HRBC0604A series



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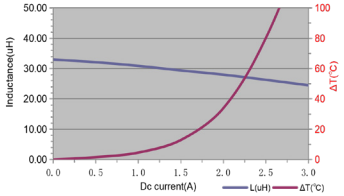

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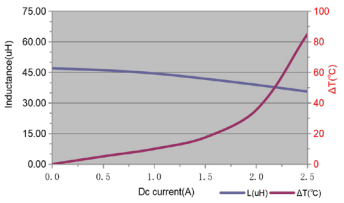

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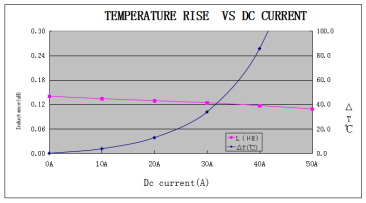
Product Characteristic Curve

HRBC0605A series



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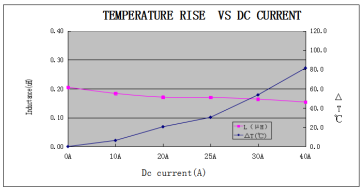

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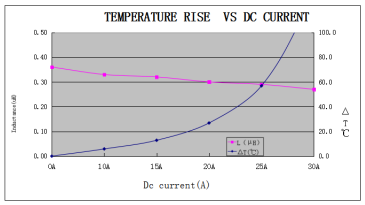

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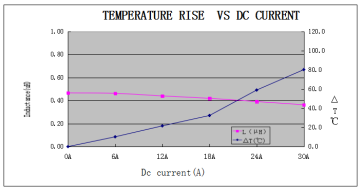

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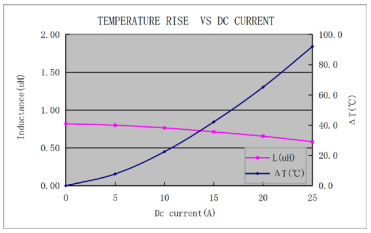

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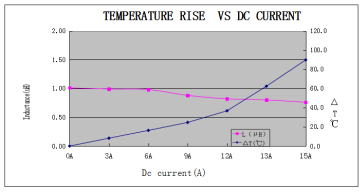

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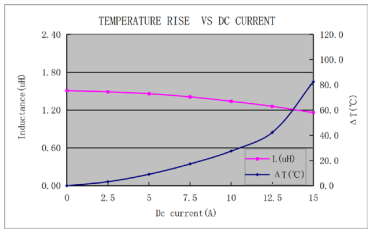

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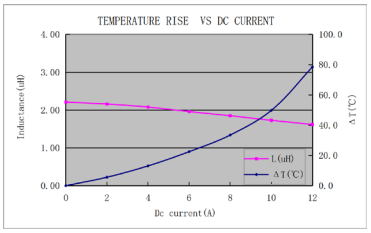

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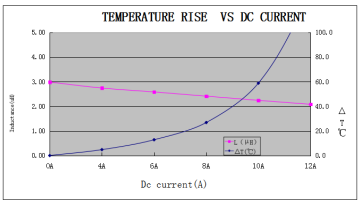

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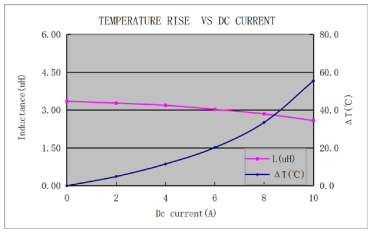

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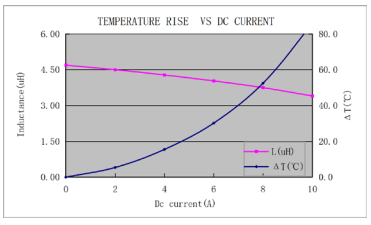

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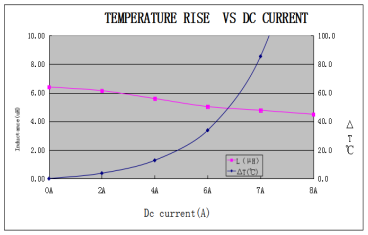

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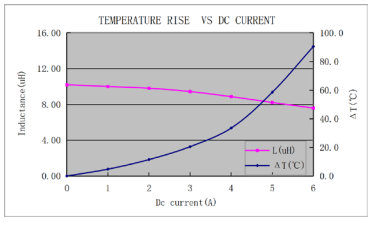

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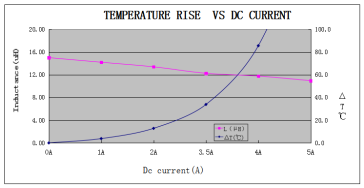

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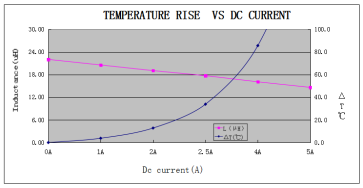

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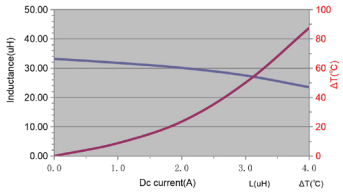
Product Characteristic Curve

HRBC0605A series



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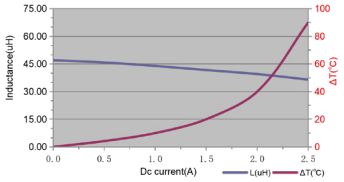

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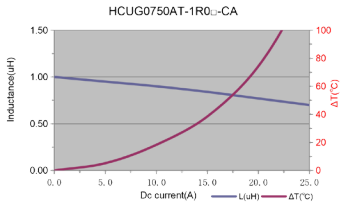
Product Characteristic Curve

HRBC0705A series



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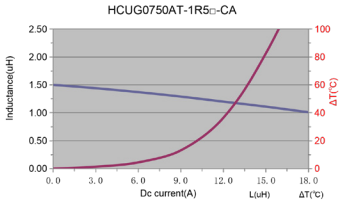

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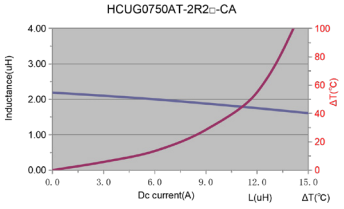

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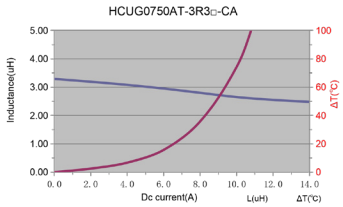

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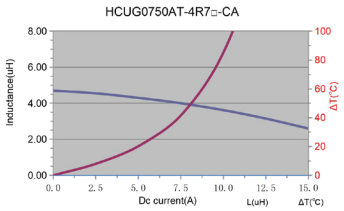

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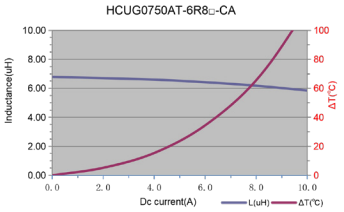

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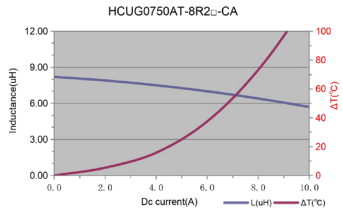

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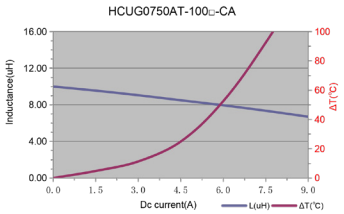

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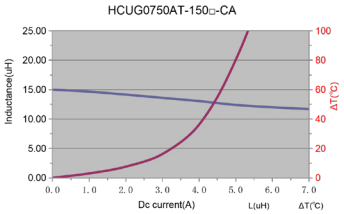

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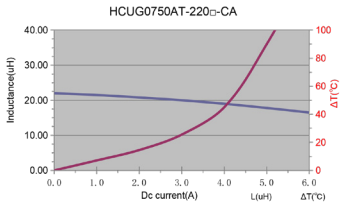

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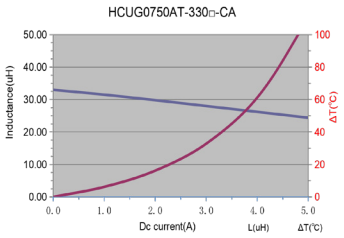

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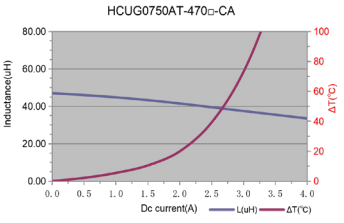

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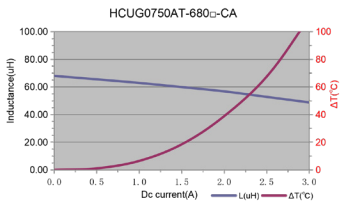

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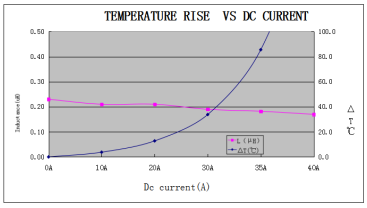
Product Characteristic Curve

HRBC1003A series



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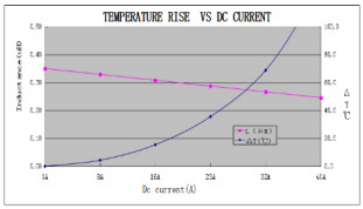

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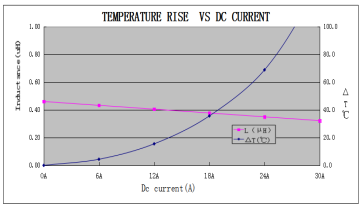

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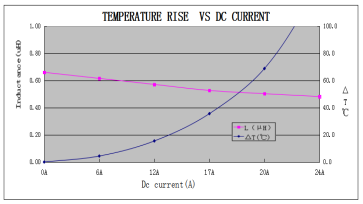

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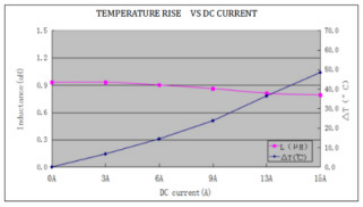

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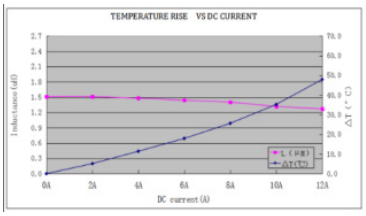

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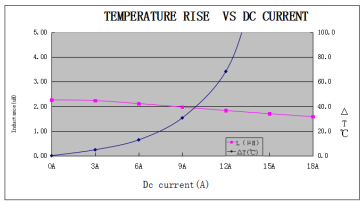

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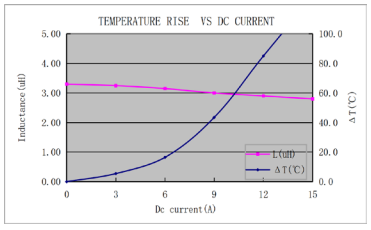

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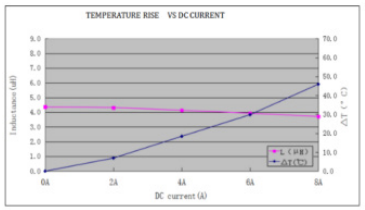

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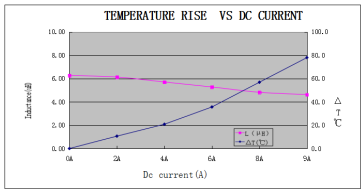

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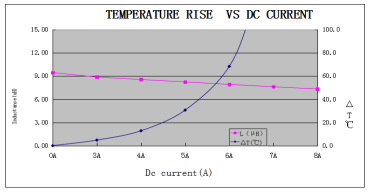

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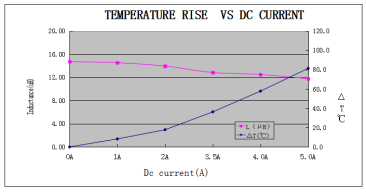

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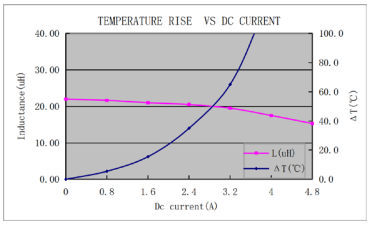

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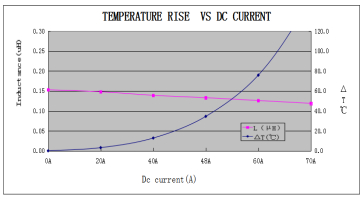
Product Characteristic Curve

HRBC1004A series



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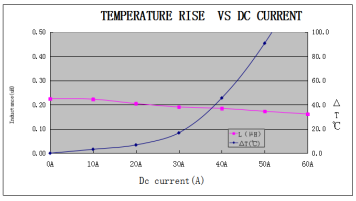

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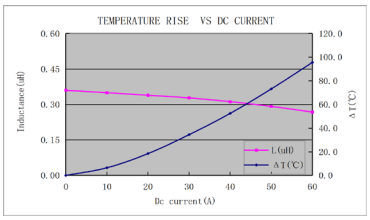

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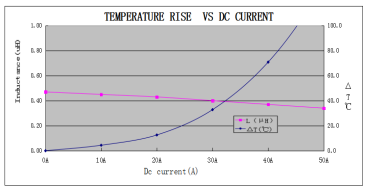

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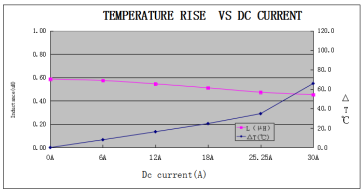

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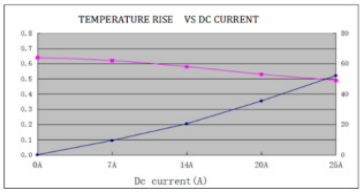

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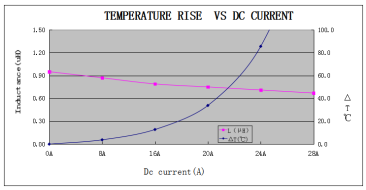

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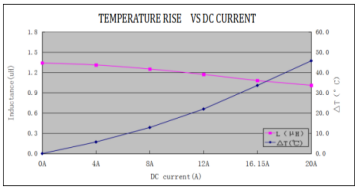

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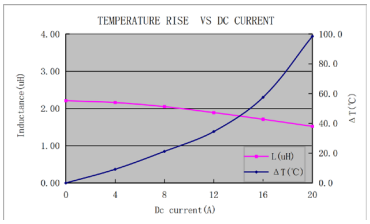

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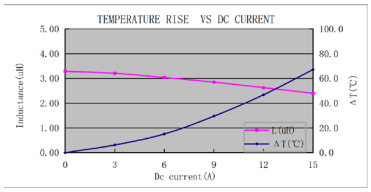

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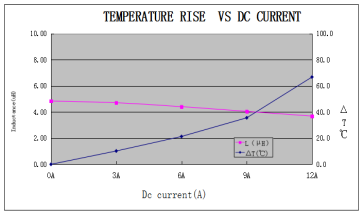

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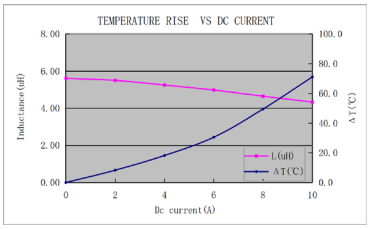

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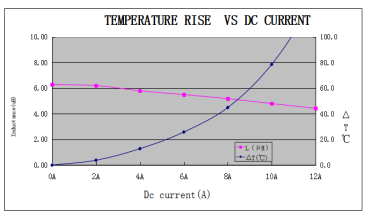

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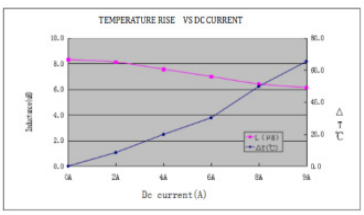

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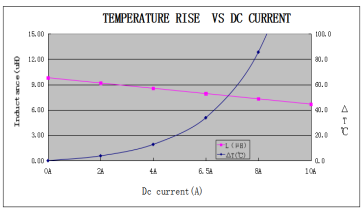

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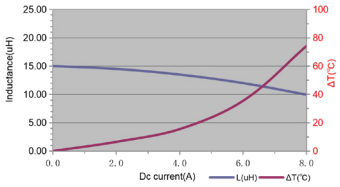
Product Characteristic Curve

HRBC1004A series



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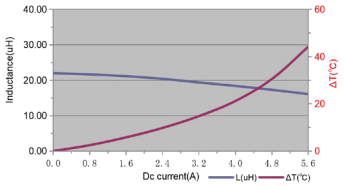

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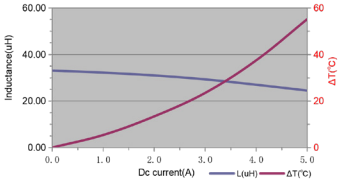

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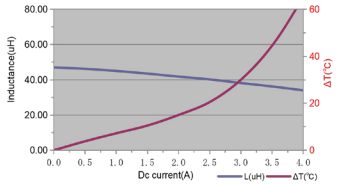

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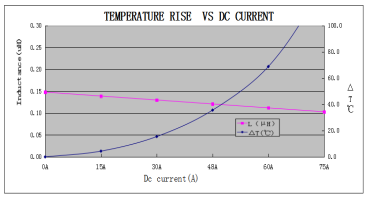
Product Characteristic Curve

HRBC1005A series



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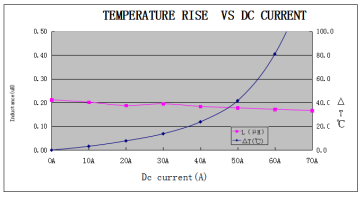

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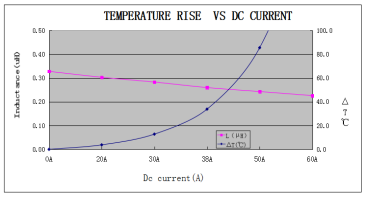

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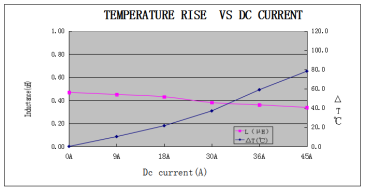

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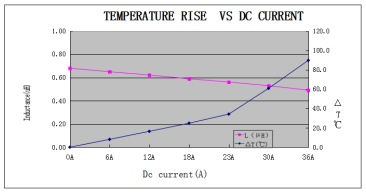

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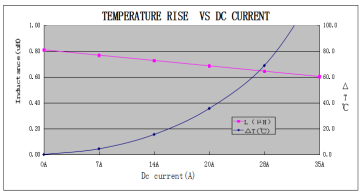

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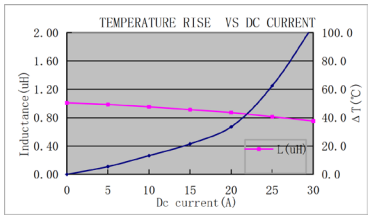

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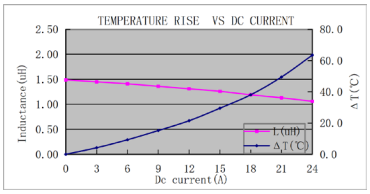

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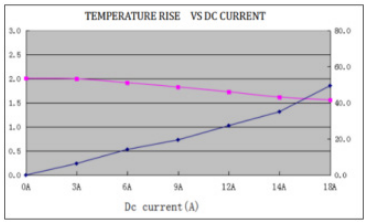

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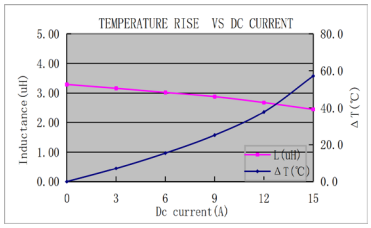

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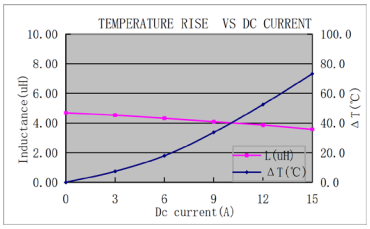

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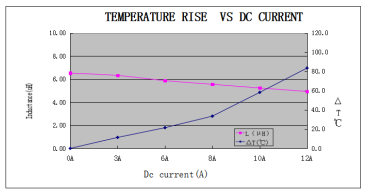

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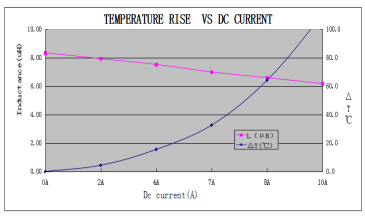

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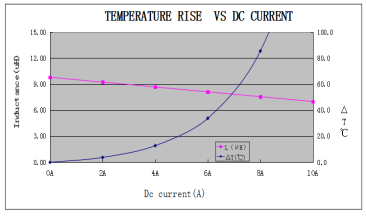

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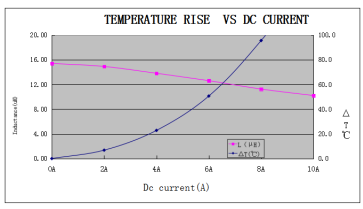

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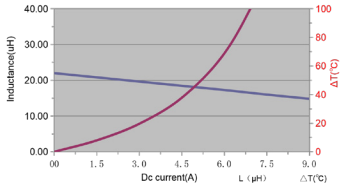
Product Characteristic Curve

HRBC1005A series



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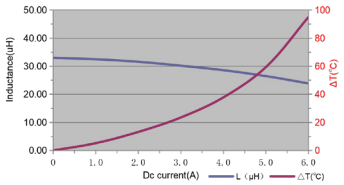

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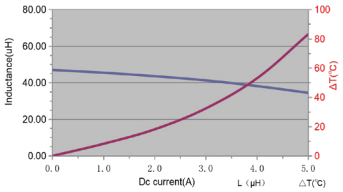

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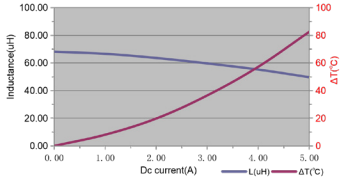

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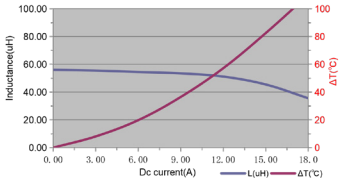

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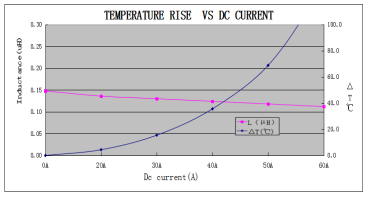
Product Characteristic Curve

HRBC1235A series



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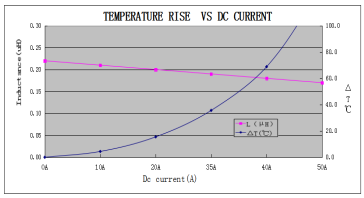

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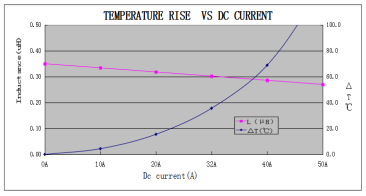

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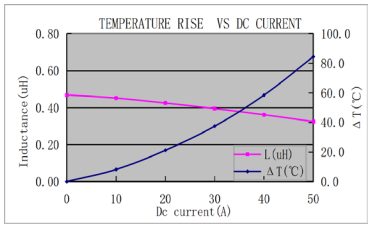

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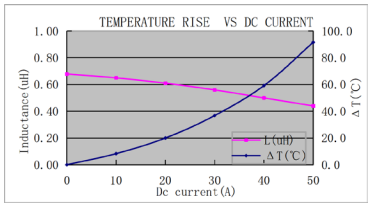

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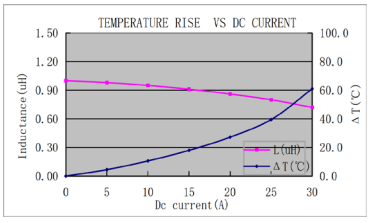

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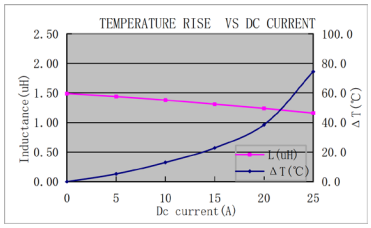

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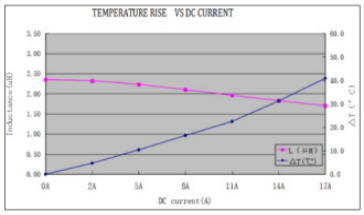

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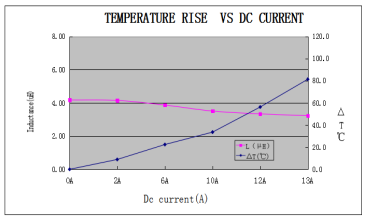

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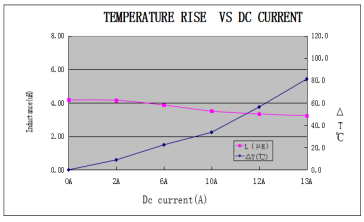

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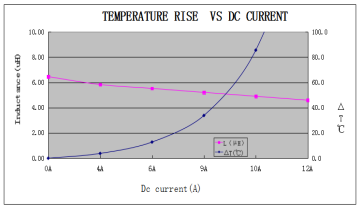

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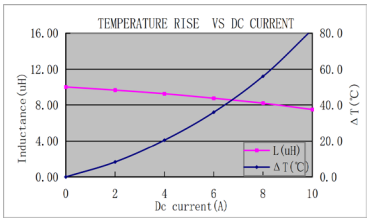

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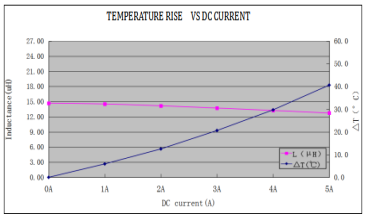

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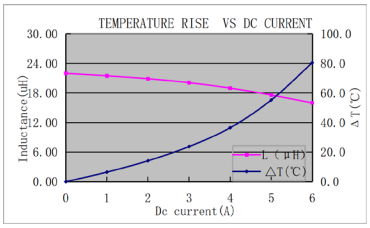

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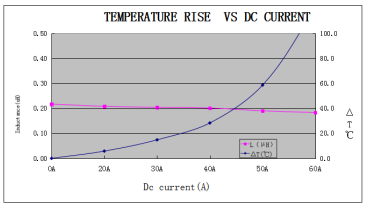
Product Characteristic Curve

HRBC1205A series



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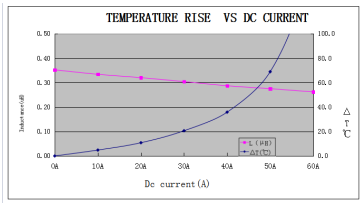

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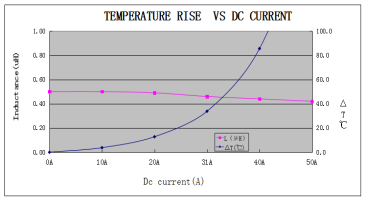

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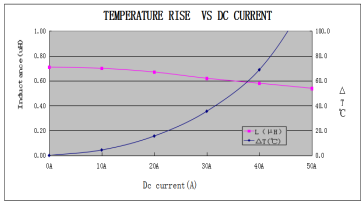

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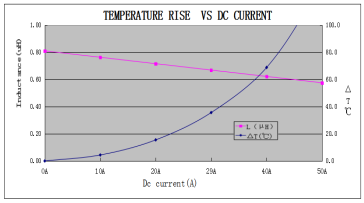

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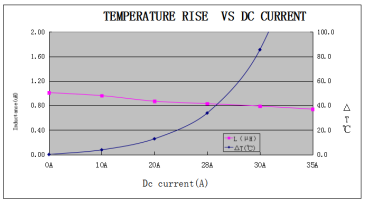

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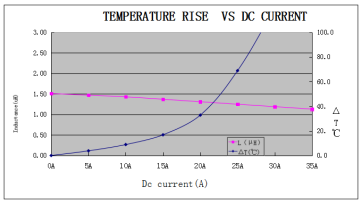

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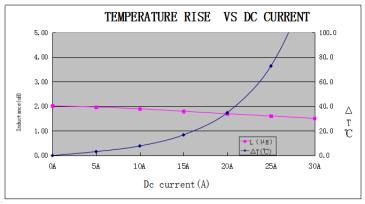

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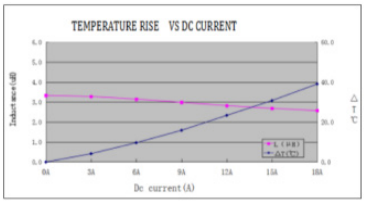

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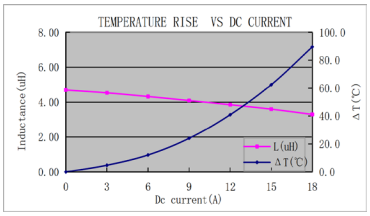

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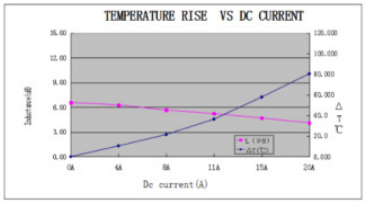

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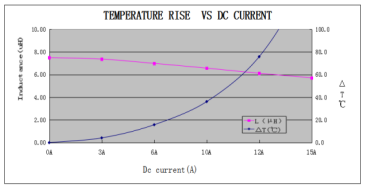

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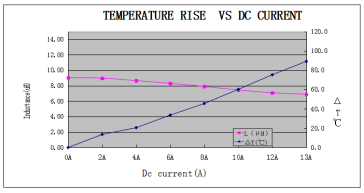

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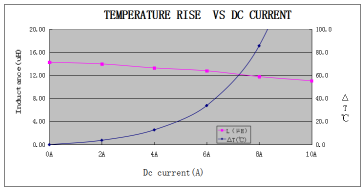

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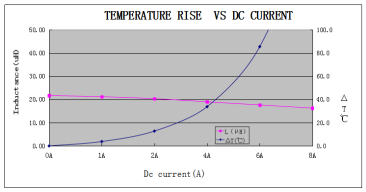

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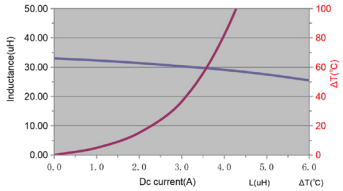
Product Characteristic Curve

HRBC1205A series



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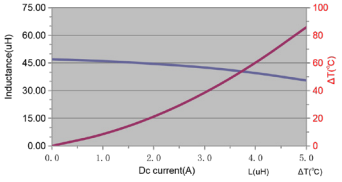

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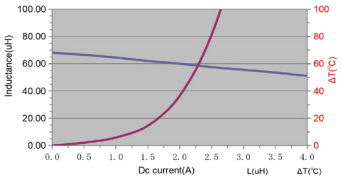

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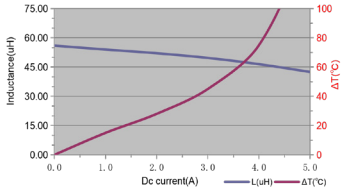

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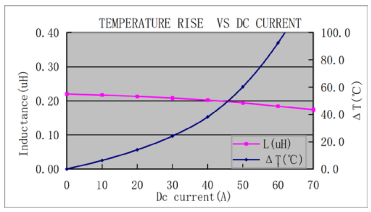
Product Characteristic Curve

HRBC1265A series



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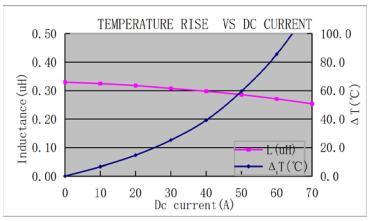

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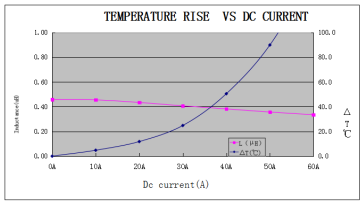

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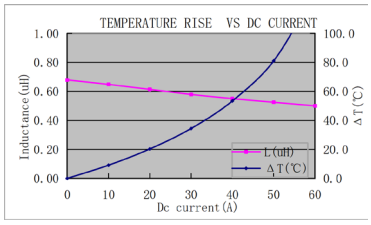

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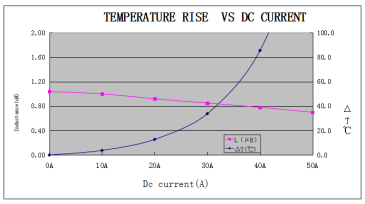

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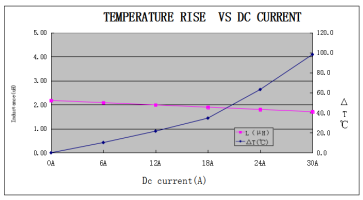

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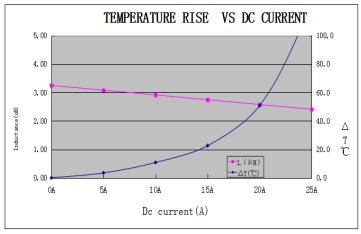

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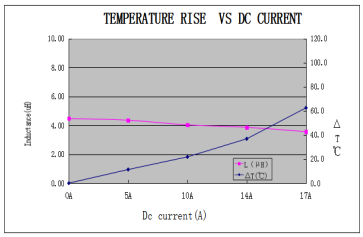

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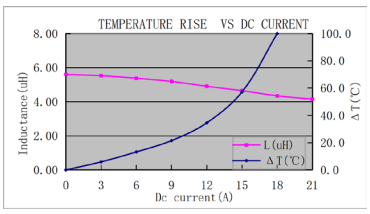

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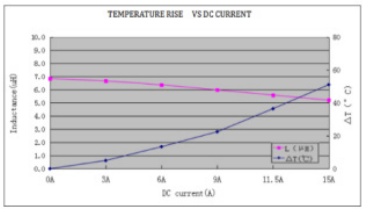

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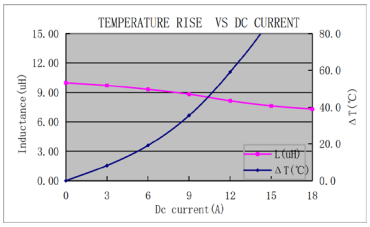

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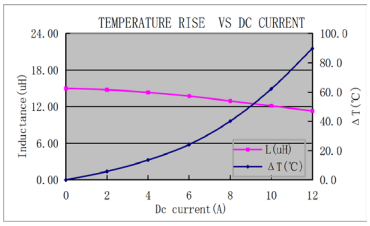

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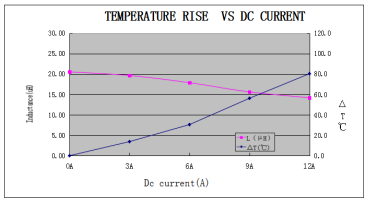

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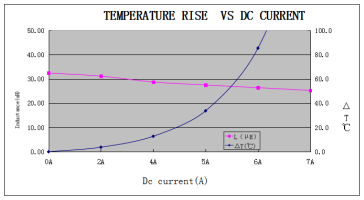

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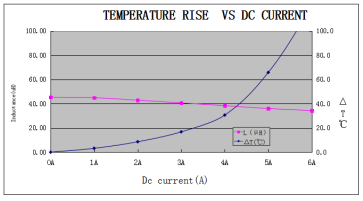

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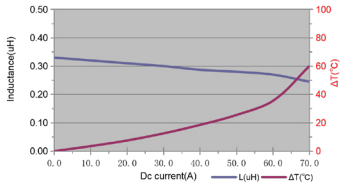
Product Characteristic Curve

HRBC1704A series



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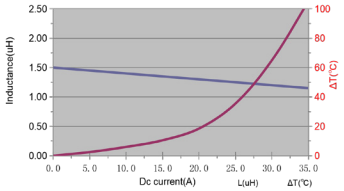

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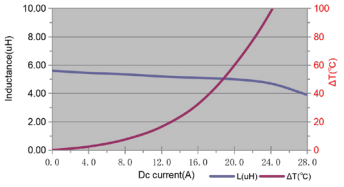

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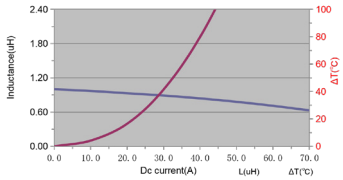
Product Characteristic Curve

HRBC1707A series



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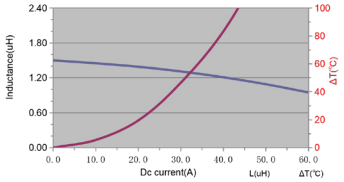

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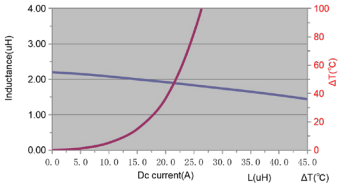

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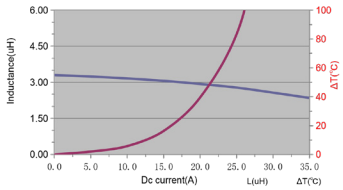

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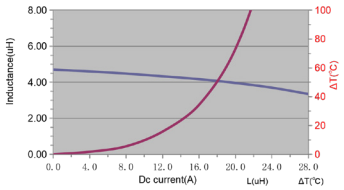

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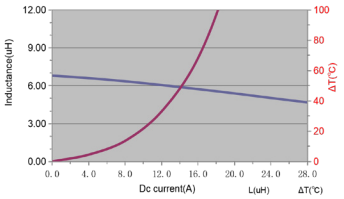

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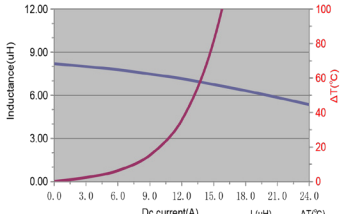

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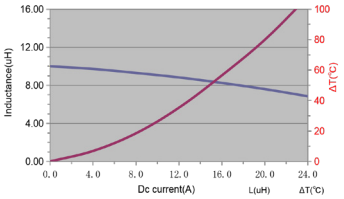

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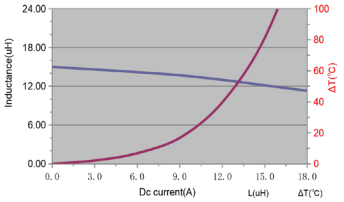

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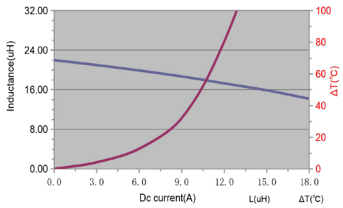

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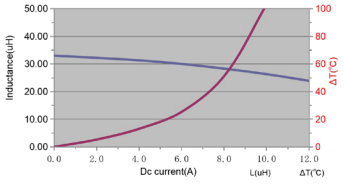

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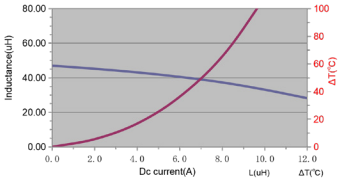

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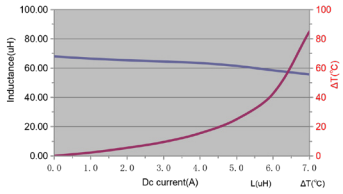

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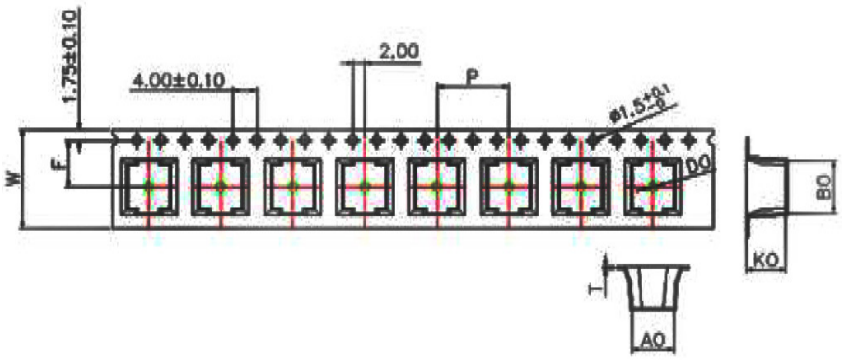
Packaging Specifications



Dimensions in mm

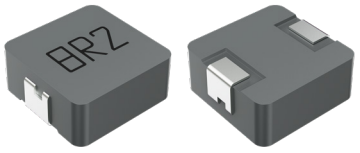
TYPE	Tape Dimensions						Quantity PCS/REEL
	A0	B0	K0	W	P	T	
HRBC0415A	4.4	5.2	1.7	12.0	8.0	0.30	3000
HRBC0402A	4.4	5.2	2.2	12.0	8.0	0.30	3000
HRBC0515A	5.4	6.0	1.7	12.0	8.0	0.30	3000
HRBC0518A	5.4	6.0	2.2	12.0	8.0	0.30	3000
HRBC0502A	5.4	6.0	2.2	12.0	8.0	0.30	3000
HRBC0503A	5.4	6.0	3.2	12.0	8.0	0.30	2500
HRBC0615A	7.0	7.8	1.7	16.0	12.0	0.35	2000
HRBC0618A	7.0	7.8	2.3	16.0	12.0	0.35	2000
HRBC0602A	7.0	7.8	2.3	16.0	12.0	0.35	2000
HRBC0624A	7.0	7.8	2.6	16.0	12.0	0.35	2000
HRBC0603A	7.0	7.8	3.2	16.0	12.0	0.35	1500
HRBC0604A	7.0	7.8	4.2	16.0	12.0	0.35	1000
HRBC0605A	7.0	7.8	5.2	16.0	12.0	0.35	1000
HRBC0705A	8.8	9.2	5.2	16.0	12.0	0.35	1000
HRBC1003A	10.7	12.0	3.2	24.0	16.0	0.35	1000
HRBC1004A	10.7	12.0	4.5	24.0	16.0	0.35	1000
HRBC1005A	10.7	12.0	5.2	24.0	16.0	0.35	500
HRBC1235A	13.3	14.8	3.8	24.0	16.0	0.35	800
HRBC1205A	13.3	14.8	5.3	24.0	16.0	0.35	500
HRBC1265A	13.3	14.8	6.8	24.0	16.0	0.35	500
HRBC1704A	17.8	18.4	4.65	32.0	24.0	0.40	500
HRBC1707A	17.4	18.8	7.60	32.0	24.0	0.40	300

Automotive
AEC-Q200

HRBC SERIES

FEATURES

- RoHS compliant
- Super low resistance, ultra high current rating
- High performance (Isat) realized by metal dust core
- Frequency Range: up to 1MHz

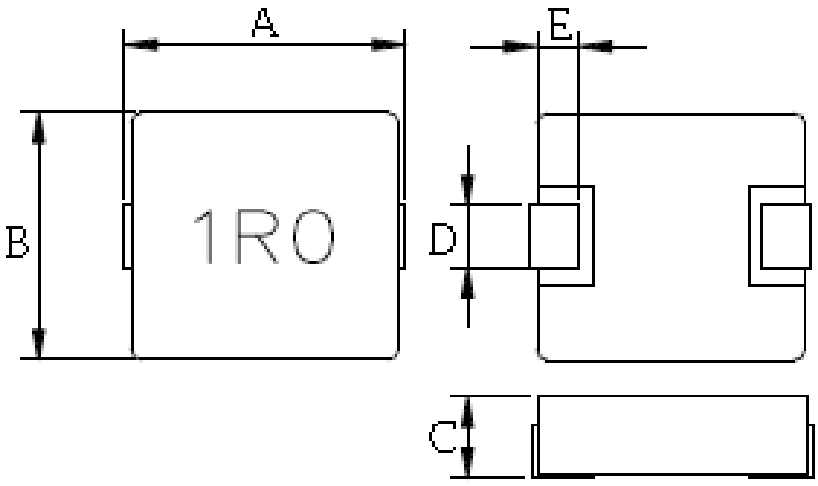


ORDERING CODE

HRBC	0603	C	100	M	P	G	00

Type	Dimensions	Material code	Inductance	Tolerance	Surface	Colour	Tail code
	0402	A：alloyed	R47:0.47μH	M：±20%	P：plane	G：gray	
	0503	C：carbonyl	4R7:4.7μH	T：±30%		B：black	
	0603		470:47μH				
	1004		471:470μH				
	1205						
	1707						

Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	E
HRBC0402C	4.49±0.4	4.06±0.3	2.0max	1.5±0.3	1.1±0.3
HRBC0518C	5.6±0.3	5.3max	1.8max	2.0±0.3	1.2±0.3
HRBC0502C	5.6±0.3	5.3max	2.0max	2.0±0.3	1.2±0.3
HRBC0503C	5.6±0.3	5.3max	3.0max	2.0±0.3	1.2±0.3
HRBC0618C	7.6max	6.6±0.3	1.8max	3.0±0.3	1.6±0.5
HRBC0602C	7.6max	6.6±0.3	2.0max	3.0±0.3	1.6±0.5
HRBC0624C	7.6max	6.6±0.3	2.4max	3.0±0.3	1.6±0.5
HRBC0603C	7.6max	6.6±0.3	3.0max	3.0±0.3	1.6±0.5
HRBC0604C	7.6max	6.6±0.3	4.0max	3.0±0.3	1.6±0.5
HRBC0605C	7.6max	6.6±0.3	5.0max	3.0±0.3	1.6±0.5
HRBC1004C	11.8max	10.8max	4.0max	3.0±0.3	2.0±0.5
HRBC1005C	11.8max	10.8max	5.0max	3.0±0.3	2.0±0.5
HRBC1235C	13.5±1.0	12.8±0.5	3.5max	3.5±0.5	2.5±0.5
HRBC1205C	13.5±1.0	12.8±0.5	5.0max	3.5±0.5	2.5±0.5
HRBC1265C	13.5±1.0	12.8±0.5	6.5max	3.5±0.5	2.5±0.5
HRBC1707C	18.0±1.0	17.0±0.5	7.0MAX	12.0±0.5	3.3±0.5

HRBC0402C series Standard Specifications

Part No.	Inductance e(μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0402CR10□PG00	0.10	100kHz,1V	3.8(4.5)	35.0	14.0	30	R10
HRBC0402CR22□PG00	0.22	100kHz,1V	5.0(7.0)	24.0	13.0	20,30	R22
HRBC0402CR33□PG00	0.33	100kHz,1V	8.2(10.5)	18.0	10.0	20,30	R33
HRBC0402CR47□PG00	0.47	100kHz,1V	11.0(14.0)	12.0	8.0	20,30	R47
HRBC0402CR56□PG00	0.56	100kHz,1V	14.0(18.0)	10.0	7.0	20,30	R56
HRBC0402CR68□PG00	0.68	100kHz,1V	15.0(20.0)	10.0	7.0	20,30	R68
HRBC0402C1R0□PG00	1.00	100kHz,1V	22.0(27.0)	8.5	5.0	20,30	1R0
HRBC0402C1R5□PG00	1.50	100kHz,1V	32.0(42.0)	7.0	4.5	20,30	1R5
HRBC0402C2R2□PG00	2.20	100kHz,1V	45.0(58.0)	7.0	4.0	20,30	2R2
HRBC0402C3R3□PG00	3.30	100kHz,1V	78.0(87.0)	6.0	3.0	20,30	3R3
HRBC0402C4R7□PG00	4.70	100kHz,1V	105.0(140.0)	4.0	2.2	20,30	4R7
HRBC0402C6R8□PG00	6.80	100kHz,1V	120.0(175.0)	3.0	2.1	20,30	6R8
HRBC0402C8R2□PG00	8.20	100kHz,1V	170.0(200.0)	2.5	1.8	20,30	8R2
HRBC0402C100□PG00	10.00	100kHz,1V	170.0(200.0)	2.0	1.6	20,30	100
HRBC0402C220□PG00	22.00	100kHz,1V	540.0(600.0)	2.0	1.0	20,30	220

HRBC0518C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0518CR20□PG00	0.20	100kHz,1V	3.6(4.1)	25.0	14.0	20,30	R20
HRBC0518CR22□PG00	0.22	100kHz,1V	4.2(5.0)	22.0	13.0	20,30	R22
HRBC0518CR33□PG00	0.33	100kHz,1V	7.5(8.6)	15.0	11.0	20,30	R33
HRBC0518CR47□PG00	0.47	100kHz,1V	9.8(11.3)	14.0	10.0	20,30	R47
HRBC0518CR56□PG00	0.56	100kHz,1V	11.0(13.0)	13.5	9.5	20,30	R56
HRBC0518CR68□PG00	0.68	100kHz,1V	12.4(14.3)	13.0	9.0	20,30	R68
HRBC0518C1R0□PG00	1.00	100kHz,1V	18.2(21.0)	10.0	6.8	20,30	1R0
HRBC0518C1R5□PG00	1.50	100kHz,1V	26.0(30.0)	9.0	6.0	20,30	1R5
HRBC0518C2R2□PG00	2.20	100kHz,1V	42.0(48.3)	7.5	4.5	20,30	2R2
HRBC0518C3R3□PG00	3.30	100kHz,1V	60.0(69.0)	5.0	3.5	20,30	3R3
HRBC0518C4R7□PG00	4.70	100kHz,1V	85.0(98.0)	4.5	3.0	20,30	4R7
HRBC0518C5R6□PG00	5.60	100kHz,1V	110.0(127.0)	4.0	2.5	20,30	5R6
HRBC0518C6R8□PG00	6.80	100kHz,1V	118.0(137.0)	3.5	2.4	20,30	6R8
HRBC0518C8R2□PG00	8.20	100kHz,1V	143.0(165.0)	3.0	2.3	20,30	8R2
HRBC0518C100□PG00	10.00	100kHz,1V	165.0(190.0)	2.8	2.3	20,30	100
HRBC0518C150□PG00	15.00	100kHz,1V	275.0(318.0)	2.3	1.7	20,30	150

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △ T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0502C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0502CR10□PG00	0.10	100kHz,1V	3.6(4.0)	45.0	18.0	30	R10
HRBC0502CR15□PG00	0.15	100kHz,1V	3.8(4.6)	27.0	16.0	30	R15
HRBC0502CR22□PG00	0.22	100kHz,1V	4.0(5.5)	25.0	15.0	20,30	R22
HRBC0502CR24□PG00	0.24	100kHz,1V	6.0(7.0)	23.0	13.0	20,30	R24
HRBC0502CR33□PG00	0.33	100kHz,1V	6.3(7.3)	21.3	12.0	20,30	R33
HRBC0502CR36□PG00	0.36	100kHz,1V	6.8(7.8)	20.0	11.8	20,30	R36
HRBC0502CR47□PG00	0.47	100kHz,1V	8.4(9.5)	18.0	11.5	20,30	R47
HRBC0502CR56□PG00	0.56	100kHz,1V	9.3(11.2)	15.0	10.7	20,30	R56
HRBC0502CR68□PG00	0.68	100kHz,1V	11.0(12.4)	12.8	10.0	20,30	R68
HRBC0502C1R0□PG00	1.00	100kHz,1V	17.5(20.0)	13.7	7.0	20,30	1R0
HRBC0502C1R2□PG00	1.20	100kHz,1V	23.0(28.0)	11.0	6.2	20,30	1R2
HRBC0502C1R5□PG00	1.50	100kHz,1V	26.5(30.5)	9.8	5.5	20,30	1R5
HRBC0502C2R2□PG00	2.20	100kHz,1V	42.0(50.0)	9.0	4.2	20,30	2R2
HRBC0502C3R3□PG00	3.30	100kHz,1V	66.0(76.0)	7.3	3.3	20,30	3R3
HRBC0502C4R7□PG00	4.70	100kHz,1V	103.0(116.0)	5.0	2.8	20,30	4R7
HRBC0502C5R6□PG00	5.60	100kHz,1V	112.0(122.0)	4.0	2.5	20,30	5R6
HRBC0502C6R8□PG00	6.80	100kHz,1V	130.0(150.0)	3.8	2.4	20,30	6R8
HRBC0502C8R2□PG00	8.20	100kHz,1V	148.0(171.0)	3.5	2.3	20,30	8R2
HRBC0502C100□PG00	10.00	100kHz,1V	195.0(220.0)	4.0	2.3	20,30	100

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △ T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0503C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0503CR10□PG00	0.10	100kHz,1V	2.5(3.0)	27.0	23.0	30	R10
HRBC0503CR20□PG00	0.20	100kHz,1V	2.6(3.2)	25.0	16.0	30	R20
HRBC0503CR22□PG00	0.22	100kHz,1V	3.7(4.4)	21.0	15.5	20,30	R22
HRBC0503CR33□PG00	0.33	100kHz,1V	4.3(5.0)	18.0	14.0	20,30	R33
HRBC0503CR47□PG00	0.47	100kHz,1V	6.4(7.4)	16.0	12.0	20,30	R47
HRBC0503CR68□PG00	0.68	100kHz,1V	10.0(12.0)	14.0	8.5	20,30	R68
HRBC0503C1R0□PG00	1.00	100kHz,1V	13.0(14.0)	11.0	7.0	20,30	1R0
HRBC0503C1R2□PG00	1.20	100kHz,1V	14.0(16.0)	11.0	6.5	20,30	1R2
HRBC0503C1R5□PG00	1.50	100kHz,1V	16.0(25.0)	10.0	6.0	20,30	1R5
HRBC0503C2R2□PG00	2.20	100kHz,1V	25.0(35.0)	9.0	5.5	20,30	2R2
HRBC0503C3R3□PG00	3.30	100kHz,1V	32.0(38.0)	8.0	5.0	20,30	3R3
HRBC0503C3R6□PG00	3.60	100kHz,1V	46.0(54.0)	7.0	4.9	20,30	3R6
HRBC0503C4R7□PG00	4.70	100kHz,1V	50.0(60.0)	6.0	4.6	20,30	4R7
HRBC0503C5R6□PG00	5.60	100kHz,1V	55.0(63.0)	4.5	4.3	20,30	5R6
HRBC0503C6R8□PG00	6.80	100kHz,1V	68.0(76.2)	4.3	4.0	20,30	6R8
HRBC0503C100□PG00	10.00	100kHz,1V	110.0(128.0)	4.0	2.8	20,30	100
HRBC0503C150□PG00	15.00	100kHz,1V	165.0(220.0)	3.0	2.1	20,30	150
HRBC0503C180□PG00	18.00	100kHz,1V	195.0(230.0)	2.3	2.0	20,30	180
HRBC0503C220□PG00	22.00	100kHz,1V	220.0(250.0)	1.7	1.9	20,30	220
HRBC0503C330□PG00	33.00	100kHz,1V	380.0(440.0)	1.6	1.6	20,30	330

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0618C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0618CR15□PG00	0.15	100kHz,1V	2.2(2.6)	30.0	16.0	30	R15
HRBC0618CR18□PG00	0.18	100kHz,1V	2.5(3.0)	29.0	15.0	30	R18
HRBC0618CR22□PG00	0.22	100kHz,1V	2.5(3.0)	24.0	14.0	20,30	R22
HRBC0618CR33□PG00	0.33	100kHz,1V	4.8(5.8)	19.0	12.0	20,30	R33
HRBC0618CR47□PG00	0.47	100kHz,1V	6.4(7.4)	16.0	10.0	20,30	R47
HRBC0618CR56□PG00	0.56	100kHz,1V	8.5(10.0)	15.0	9.5	20,30	R56
HRBC0618CR68□PG00	0.68	100kHz,1V	9.5(11.0)	15.0	9.0	20,30	R68
HRBC0618CR82□PG00	0.82	100kHz,1V	11.5(14.0)	14.0	7.9	20,30	R82
HRBC0618C1R0□PG00	1.00	100kHz,1V	14.5(17.0)	12.0	6.5	20,30	1R0
HRBC0618C1R2□PG00	1.20	100kHz,1V	20.0(24.0)	11.0	6.0	20,30	1R2
HRBC0618C1R5□PG00	1.50	100kHz,1V	21.0(25.2)	11.0	5.5	20,30	1R5
HRBC0618C2R2□PG00	2.20	100kHz,1V	31.0(35.0)	10.0	5.5	20,30	2R2
HRBC0618C3R3□PG00	3.30	100kHz,1V	40.0(46.0)	8.0	4.5	20,30	3R3
HRBC0618C4R7□PG00	4.70	100kHz,1V	68.0(76.0)	6.0	3.6	20,30	4R7
HRBC0618C5R6□PG00	5.60	100kHz,1V	78.0(86.0)	5.0	3.1	20,30	5R6
HRBC0618C6R8□PG00	6.80	100kHz,1V	93.0(104.0)	4.5	2.6	20,30	6R8
HRBC0618C8R2□PG00	8.20	100kHz,1V	123.0(140.0)	3.8	2.2	20,30	8R2
HRBC0618C100□PG00	10.00	100kHz,1V	143.0(160.0)	3.1	2.0	20,30	100
HRBC0618C150□PG00	15.00	100kHz,1V	240.0(280.0)	2.7	1.7	20,30	150
HRBC0618C220□PG00	22.00	100kHz,1V	300.0(360.0)	2.1	1.5	20,30	220

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0602C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0602CR10□PG00	0.10	100kHz,1V	2.0(2.4)	40.0	21.0	30	R10
HRBC0602CR15□PG00	0.15	100kHz,1V	2.3(2.7)	39.0	18.0	30	R15
HRBC0602CR16□PG00	0.16	100kHz,1V	2.3(2.7)	38.0	18.0	30	R16
HRBC0602CR18□PG00	0.18	100kHz,1V	2.4(2.9)	36.0	18.0	30	R18
HRBC0602CR20□PG00	0.20	100kHz,1V	2.5(3.0)	35.0	18.0	30	R20
HRBC0602CR22□PG00	0.22	100kHz,1V	3.5(4.0)	32.0	15.0	30	R22
HRBC0602CR33□PG00	0.33	100kHz,1V	4.5(5.0)	25.0	14.0	20,30	R33
HRBC0602CR47□PG00	0.47	100kHz,1V	7.1(8.3)	20.0	11.7	20,30	R47
HRBC0602CR56□PG00	0.56	100kHz,1V	7.9(9.3)	18.0	11.0	20,30	R56
HRBC0602CR68□PG00	0.68	100kHz,1V	8.3(10.0)	16.0	10.5	20,30	R68
HRBC0602C1R0□PG00	1.00	100kHz,1V	16.5(20.0)	14.0	8.0	20,30	1R0
HRBC0602C1R2□PG00	1.20	100kHz,1V	19.0(23.0)	13.0	7.5	20,30	1R2
HRBC0602C1R5□PG00	1.50	100kHz,1V	23.0(27.0)	12.0	7.0	20,30	1R5
HRBC0602C2R2□PG00	2.20	100kHz,1V	32.0(37.0)	10.0	6.0	20,30	2R2
HRBC0602C3R3□PG00	3.30	100kHz,1V	43.0(48.0)	8.0	5.0	20,30	3R3
HRBC0602C4R7□PG00	4.70	100kHz,1V	58.0(65.0)	8.0	4.5	20,30	4R7
HRBC0602C5R6□PG00	5.60	100kHz,1V	59.0(68.0)	6.0	4.0	20,30	5R6
HRBC0602C6R8□PG00	6.80	100kHz,1V	63.0(73.0)	5.5	4.0	20,30	6R8
HRBC0602C8R2□PG00	8.20	100kHz,1V	101.0(116.0)	5.0	3.2	20,30	8R2
HRBC0602C100□PG00	10.00	100kHz,1V	134.0(154.0)	4.0	2.8	20,30	100
HRBC0602C150□PG00	15.00	100kHz,1V	190.0(210.0)	3.3	2.1	20,30	150
HRBC0602C220□PG00	22.00	100kHz,1V	236.0(280.0)	2.5	1.5	20,30	220

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0624C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0624CR10□PG00	0.10	100kHz,1V	1.4(1.7)	70.0	30.0	30	R10
HRBC0624CR15□PG00	0.15	100kHz,1V	1.8(2.3)	45.0	30.0	30	R15
HRBC0624CR20□PG00	0.20	100kHz,1V	1.9(2.8)	40.0	23.0	20,30	R20
HRBC0624CR22□PG00	0.22	100kHz,1V	2.0(3.2)	34.0	21.0	20,30	R22
HRBC0624CR33□PG00	0.33	100kHz,1V	3.6(4.4)	30.0	18.0	20,30	R33
HRBC0624CR36□PG00	0.36	100kHz,1V	3.8(4.6)	29.0	17.0	20,30	R36
HRBC0624CR47□PG00	0.47	100kHz,1V	4.8(5.1)	26.0	15.0	20,30	R47
HRBC0624CR56□PG00	0.56	100kHz,1V	5.5(6.5)	24.0	13.0	20,30	R56
HRBC0624CR60□PG00	0.60	100kHz,1V	5.7(6.9)	22.0	13.0	20,30	R60
HRBC0624CR68□PG00	0.68	100kHz,1V	6.4(7.2)	21.0	13.0	20,30	R68
HRBC0624CR82□PG00	0.82	100kHz,1V	8.0(9.5)	17.0	11.0	20,30	R82
HRBC0624C1R0□PG00	1.00	100kHz,1V	10.5(13.5)	16.0	11.0	20,30	1R0
HRBC0624C1R5□PG00	1.50	100kHz,1V	17.0(20.0)	12.0	7.0	20,30	1R5
HRBC0624C2R2□PG00	2.20	100kHz,1V	23.0(28.0)	11.0	6.0	20,30	2R2
HRBC0624C3R3□PG00	3.30	100kHz,1V	34.0(39.0)	10.0	6.0	20,30	3R3
HRBC0624C4R7□PG00	4.70	100kHz,1V	41.0(50.0)	9.0	5.5	20,30	4R7
HRBC0624C5R6□PG00	5.60	100kHz,1V	56.0(62.0)	8.0	5.0	20,30	5R6
HRBC0624C6R8□PG00	6.80	100kHz,1V	65.0(72.0)	7.0	4.0	20,30	6R8
HRBC0624C8R2□PG00	8.20	100kHz,1V	81.0(95.0)	6.0	3.6	20,30	8R2
HRBC0624C100□PG00	10.00	100kHz,1V	92.0(101.0)	5.0	3.2	20,30	100
HRBC0624C150□PG00	15.00	100kHz,1V	120.0(160.0)	3.5	2.5	20,30	150
HRBC0624C220□PG00	22.00	100kHz,1V	222.0(250.0)	3.0	1.8	20,30	220

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0603C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0603CR10□PG00	0.10	100kHz,1V	1.5(1.7)	60.0	32.5	20,30	R10
HRBC0603CR15□PG00	0.15	100kHz,1V	1.7(2.0)	52.0	30.0	20,30	R15
HRBC0603CR20□PG00	0.20	100kHz,1V	2.4(3.0)	41.0	24.0	20,30	R20
HRBC0603CR22□PG00	0.22	100kHz,1V	2.5(2.8)	40.0	23.0	20,30	R22
HRBC0603CR33□PG00	0.33	100kHz,1V	3.5(3.9)	30.0	20.0	20,30	R33
HRBC0603CR47□PG00	0.47	100kHz,1V	4.0(4.2)	26.0	17.5	20,30	R47
HRBC0603CR56□PG00	0.56	100kHz,1V	4.7(5.0)	25.5	16.5	20,30	R56
HRBC0603CR68□PG00	0.68	100kHz,1V	5.0(5.5)	25.0	15.5	20,30	R68
HRBC0603CR75□PG00	0.75	100kHz,1V	5.4(6.2)	24.5	14.0	20,30	R75
HRBC0603CR82□PG00	0.82	100kHz,1V	6.7(8.0)	24.0	13.0	20,30	R82
HRBC0603C1R0□PG00	1.00	100kHz,1V	9.0(10.0)	22.0	11.0	20,30	1R0
HRBC0603C1R2□PG00	1.20	100kHz,1V	10.0(12.0)	20.0	10.0	20,30	1R2
HRBC0603C1R5□PG00	1.50	100kHz,1V	14.0(15.0)	18.0	9.0	20,30	1R5
HRBC0603C2R0□PG00	2.00	100kHz,1V	16.0(18.0)	14.0	8.2	20,30	2R0
HRBC0603C2R2□PG00	2.20	100kHz,1V	18.0(20.0)	14.0	8.0	20,30	2R2
HRBC0603C2R5□PG00	2.50	100kHz,1V	20.0(22.0)	14.0	7.0	20,30	2R5
HRBC0603C3R3□PG00	3.30	100kHz,1V	28.0(30.0)	13.5	6.0	20,30	3R3
HRBC0603C4R7□PG00	4.70	100kHz,1V	37.0(40.0)	10.0	5.5	20,30	4R7
HRBC0603C6R8□PG00	6.80	100kHz,1V	54.0(60.0)	8.0	4.5	20,30	6R8
HRBC0603C8R2□PG00	8.20	100kHz,1V	60.0(68.0)	8.0	4.0	20,30	8R2
HRBC0603C100□PG00	10.00	100kHz,1V	95.0(105.0)	7.0	3.0	20,30	100

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △ T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0604C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0604CR12□PG00	0.12	100kHz,1V	0.7(1.0)	64.0	32.0	30	R12
HRBC0604CR15□PG00	0.15	100kHz,1V	0.9(1.2)	55.0	30.0	30	R15
HRBC0604CR22□PG00	0.22	100kHz,1V	1.9(2.1)	34.0	25.0	20,30	R22
HRBC0604CR33□PG00	0.33	100kHz,1V	2.0(2.6)	34.0	25.0	20,30	R33
HRBC0604CR36□PG00	0.36	100kHz,1V	2.7(3.1)	31.0	25.0	20,30	R36
HRBC0604CR47□PG00	0.47	100kHz,1V	3.0(3.4)	28.0	23.0	20,30	R47
HRBC0604CR56□PG00	0.56	100kHz,1V	3.8(4.3)	26.0	20.0	20,30	R56
HRBC0604CR68□PG00	0.68	100kHz,1V	4.1(4.5)	24.0	16.0	20,30	R68
HRBC0604C1R0□PG00	1.00	100kHz,1V	6.8(8.0)	22.0	14.0	20,30	1R0
HRBC0604C1R5□PG00	1.50	100kHz,1V	10.0(12.0)	20.0	12.0	20,30	1R5
HRBC0604C2R2□PG00	2.20	100kHz,1V	11.5(14.0)	14.0	9.0	20,30	2R2
HRBC0604C3R3□PG00	3.30	100kHz,1V	24.0(27.0)	12.0	8.0	20,30	3R3
HRBC0604C4R7□PG00	4.70	100kHz,1V	28.0(32.5)	11.0	6.0	20,30	4R7
HRBC0604C5R6□PG00	5.60	100kHz,1V	33.0(38.0)	9.0	5.0	20,30	5R6
HRBC0604C6R8□PG00	6.80	100kHz,1V	44.0(50.0)	8.5	4.5	20,30	6R8
HRBC0604C8R2□PG00	8.20	100kHz,1V	55.0(64.0)	8.0	4.5	20,30	8R2
HRBC0604C100□PG00	10.00	100kHz,1V	64.0(72.0)	7.0	4.0	20,30	100
HRBC0604C150□PG00	15.00	100kHz,1V	80.0(90.0)	3.5	3.0	20,30	150
HRBC0604C220□PG00	22.00	100kHz,1V	120.0(145.0)	3.5	2.5	20,30	220
HRBC0604C330□PG00	33.00	100kHz,1V	180.0(210.0)	3.2	1.8	20,30	330
HRBC0604C470□PG00	47.00	100kHz,1V	295.0(350.0)	2.5	1.8	20,30	470

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △ T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC0605C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC0605CR10□PG00	0.10	100kHz,1V	0.7(0.8)	65.0	32.0	30	R10
HRBC0605CR11□PG00	0.11	100kHz,1V	0.7(0.8)	65.0	32.0	30	R11
HRBC0605CR15□PG00	0.15	100kHz,1V	1.3(1.7)	50.0	30.0	30	R15
HRBC0605CR22□PG00	0.22	100kHz,1V	1.6(1.9)	35.0	25.0	20,30	R22
HRBC0605CR33□PG00	0.33	100kHz,1V	2.5(3.0)	32.0	25.0	20,30	R33
HRBC0605CR40□PG00	0.40	100kHz,1V	3.1(3.7)	31.0	23.0	20,30	R40
HRBC0605CR47□PG00	0.47	100kHz,1V	3.5(3.9)	30.0	22.0	20,30	R47
HRBC0605CR56□PG00	0.56	100kHz,1V	3.6(4.2)	27.0	20.0	20,30	R56
HRBC0605CR60□PG00	0.60	100kHz,1V	3.8(4.3)	25.0	19.0	20,30	R60
HRBC0605CR68□PG00	0.68	100kHz,1V	4.0(4.5)	24.0	18.0	20,30	R68
HRBC0605CR82□PG00	0.82	100kHz,1V	4.6(4.9)	22.0	16.5	20,30	R82
HRBC0605C1R0□PG00	1.00	100kHz,1V	6.1(6.5)	20.0	15.0	20,30	1R0
HRBC0605C1R2□PG00	1.20	100kHz,1V	6.7(7.5)	18.0	14.0	20,30	1R2
HRBC0605C1R5□PG00	1.50	100kHz,1V	8.6(9.0)	16.5	12.0	20,30	1R5
HRBC0605C1R8□PG00	1.80	100kHz,1V	9.5(11.0)	15.0	12.0	20,30	1R8
HRBC0605C2R2□PG00	2.20	100kHz,1V	11.2(12.0)	14.0	10.0	20,30	2R2
HRBC0605C3R3□PG00	3.30	100kHz,1V	19.0(20.9)	12.0	8.0	20,30	3R3
HRBC0605C4R7□PG00	4.70	100kHz,1V	28.0(30.8)	10.0	6.5	20,30	4R7
HRBC0605C4R9□PG00	4.90	100kHz,1V	32.0(38.0)	9.5	6.3	20,30	4R9
HRBC0605C5R6□PG00	5.60	100kHz,1V	43.5(49.0)	9.0	6.0	20,30	5R6
HRBC0605C6R8□PG00	6.80	100kHz,1V	46.0(51.5)	8.5	5.5	20,30	6R8
HRBC0605C8R2□PG00	8.20	100kHz,1V	56.0(63.0)	8.0	5.0	20,30	8R2
HRBC0605C100□PG00	10.00	100kHz,1V	60.0(69.0)	7.5	4.0	20,30	100
HRBC0605C120□PG00	12.00	100kHz,1V	68.0(80.0)	6.7	3.8	20,30	120
HRBC0605C150□PG00	15.00	100kHz,1V	81.0(92.0)	6.0	3.5	20,30	150
HRBC0605C220□PG00	22.00	100kHz,1V	140.0(170.0)	5.5	2.5	20,30	220
HRBC0605C330□PG00	33.00	100kHz,1V	173.0(200.0)	3.5	2.0	20,30	330
HRBC0605C420□PG00	42.00	100kHz,1V	212.0(245.0)	2.8	2.0	20,30	420
HRBC0605C470□PG00	47.00	100kHz,1V	190.0(240.0)	2.7	1.9	20,30	470
HRBC0605C560□PG00	56.00	100kHz,1V	342.0(396.0)	2.1	1.6	20,30	560
HRBC0605C680□PG00	68.00	100kHz,1V	386.0(445.0)	2.0	1.2	20,30	680

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1004C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1004CR19□PG00	0.19	100kHz,1V	0.5(0.7)	75.0	40.0	20,30	R19
HRBC1004CR22□PG00	0.22	100kHz,1V	0.5(0.7)	70.0	40.0	20,30	R22
HRBC1004CR36□PG00	0.36	100kHz,1V	1.1(1.3)	60.0	30.0	20,30	R36
HRBC1004CR39□PG00	0.39	100kHz,1V	1.2(1.4)	60.0	30.0	20,30	R39
HRBC1004CR47□PG00	0.47	100kHz,1V	1.2(1.5)	60.0	30.0	20,30	R47
HRBC1004CR56□PG00	0.56	100kHz,1V	1.6(1.8)	40.0	25.0	20,30	R56
HRBC1004C1R0□PG00	1.00	100kHz,1V	2.7(3.3)	36.0	18.0	20,30	1R0
HRBC1004C1R5□PG00	1.50	100kHz,1V	4.6(5.8)	33.0	16.0	20,30	1R5
HRBC1004C2R2□PG00	2.20	100kHz,1V	6.5(7.5)	27.0	12.0	20,30	2R2
HRBC1004C3R3□PG00	3.30	100kHz,1V	10.8(12.0)	20.0	11.0	20,30	3R3
HRBC1004C4R7□PG00	4.70	100kHz,1V	16.0(19.0)	17.0	9.5	20,30	4R7
HRBC1004C6R8□PG00	6.80	100kHz,1V	17.5(23.3)	13.5	8.5	20,30	6R8
HRBC1004C100□PG00	10.00	100kHz,1V	27.0(30.0)	12.0	7.5	20,30	100
HRBC1004C150□PG00	15.00	100kHz,1V	43.0(48.0)	10.0	6.3	20,30	150
HRBC1004C220□PG00	22.00	100kHz,1V	63.0(74.0)	7.0	5.0	20,30	220
HRBC1004C330□PG00	33.00	100kHz,1V	92.0(112.0)	5.0	3.5	20,30	330
HRBC1004C470□PG00	47.00	100kHz,1V	130.0(145.0)	4.5	3.0	20,30	470
HRBC1004C680□PG00	68.00	100kHz,1V	205.0(258.0)	4.0	2.5	20,30	680

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △ T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1005C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1005CR22□PG00	0.22	100kHz,1V	0.5(0.6)	70.0	45.0	20,30	R22
HRBC1005CR30□PG00	0.30	100kHz,1V	0.6(0.8)	65.0	38.0	20,30	R30
HRBC1005CR56□PG00	0.56	100kHz,1V	1.3(1.5)	43.0	26.5	20,30	R56
HRBC1005CR90□PG00	0.90	100kHz,1V	2.2(3.0)	32.0	25.0	20,30	R90
HRBC1005C1R0□PG00	1.00	100kHz,1V	2.8(3.5)	30.0	22.0	20,30	1R0
HRBC1005C1R2□PG00	1.20	100kHz,1V	2.9(3.5)	28.0	20.0	20,30	1R2
HRBC1005C1R3□PG00	1.30	100kHz,1V	3.2(3.7)	28.0	20.0	20,30	1R3
HRBC1005C1R5□PG00	1.50	100kHz,1V	3.5(4.1)	27.0	19.0	20,30	1R5
HRBC1005C1R8□PG00	1.80	100kHz,1V	3.7(4.7)	25.5	17.5	20,30	1R8
HRBC1005C2R2□PG00	2.20	100kHz,1V	5.4(6.0)	24.0	16.0	20,30	2R2
HRBC1005C3R3□PG00	3.30	100kHz,1V	9.0(10.4)	22.0	14.0	20,30	3R3
HRBC1005C4R7□PG00	4.70	100kHz,1V	10.0(12.5)	19.0	13.0	20,30	4R7
HRBC1005C5R0□PG00	5.00	100kHz,1V	12.2(15.0)	18.0	12.0	20,30	5R0
HRBC1005C5R6□PG00	5.60	100kHz,1V	14.0(16.8)	16.0	10.0	20,30	5R6
HRBC1005C6R8□PG00	6.80	100kHz,1V	16.5(21.0)	15.0	9.5	20,30	6R8
HRBC1005C8R2□PG00	8.20	100kHz,1V	18.5(24.0)	14.5	9.0	20,30	8R2
HRBC1005C100□PG00	10.00	100kHz,1V	25.0(29.0)	13.5	8.0	20,30	100
HRBC1005C120□PG00	12.00	100kHz,1V	30.0(35.0)	10.0	6.0	20,30	120
HRBC1005C150□PG00	15.00	100kHz,1V	37.0(45.0)	9.5	5.5	20,30	150
HRBC1005C220□PG00	22.00	100kHz,1V	50.0(60.0)	9.0	5.0	20,30	220
HRBC1005C240□PG00	24.00	100kHz,1V	59.0(70.8)	7.7	4.6	20,30	240
HRBC1005C330□PG00	33.00	100kHz,1V	93.0(100.0)	7.5	4.3	20,30	330
HRBC1005C470□PG00	47.00	100kHz,1V	125.0(145.0)	6.5	3.8	20,30	470
HRBC1005C680□PG00	68.00	100kHz,1V	195.0(215.0)	5.0	3.0	20,30	680
HRBC1005C101□PG00	100.00	100kHz,1V	315.0(380.0)	3.0	2.0	20,30	101

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1235C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1235C1R5□PG00	1.50	100kHz,1V	4.8(5.5)	35.0	19.0	20,30	1R5
HRBC1235C1R8□PG00	1.80	100kHz,1V	5.2(7.0)	30.0	17.0	20,30	1R8
HRBC1235C2R2□PG00	2.20	100kHz,1V	6.3(8.0)	29.0	16.0	20,30	2R2
HRBC1235C3R3□PG00	3.30	100kHz,1V	11.0(13.5)	27.0	12.0	20,30	3R3
HRBC1235C4R7□PG00	4.70	100kHz,1V	15.3(18.5)	24.0	10.0	20,30	4R7
HRBC1235C5R6□PG00	5.60	100kHz,1V	18.0(22.0)	19.0	9.5	20,30	5R6
HRBC1235C6R8□PG00	6.80	100kHz,1V	20.0(24.0)	18.0	9.0	20,30	6R8
HRBC1235C8R2□PG00	8.20	100kHz,1V	23.0(28.0)	16.0	8.5	20,30	8R2
HRBC1235C100□PG00	10.00	100kHz,1V	29.0(34.0)	14.0	7.5	20,30	100
HRBC1235C150□PG00	15.00	100kHz,1V	55.0(65.0)	10.0	6.5	20,30	150
HRBC1235C220□PG00	22.00	100kHz,1V	83.0(99.0)	7.0	4.5	20,30	220
HRBC1235C330□PG00	33.00	100kHz,1V	132.0(160.0)	6.0	3.5	20,30	330
HRBC1235C470□PG00	47.00	100kHz,1V	181.0(218.0)	5.5	3.0	20,30	470

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1205C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1205CR15□PG00	0.15	100kHz,1V	0.5(0.6)	110.0	53.0	20,30	R15
HRBC1205CR22□PG00	0.22	100kHz,1V	0.5(0.7)	110.0	52.0	20,30	R22
HRBC1205CR33□PG00	0.33	100kHz,1V	0.8(1.0)	75.0	42.0	20,30	R33
HRBC1205CR36□PG00	0.36	100kHz,1V	0.8(1.0)	70.0	42.0	20,30	R36
HRBC1205CR40□PG00	0.40	100kHz,1V	0.8(1.0)	64.0	41.0	20,30	R40
HRBC1205CR47□PG00	0.47	100kHz,1V	1.1(1.3)	60.0	38.0	20,30	R47
HRBC1205CR56□PG00	0.56	100kHz,1V	1.1(1.3)	55.0	36.0	20,30	R56
HRBC1205CR68□PG00	0.68	100kHz,1V	1.4(1.7)	54.0	34.0	20,30	R68
HRBC1205CR82□PG00	0.82	100kHz,1V	1.7(2.1)	52.0	31.0	20,30	R82
HRBC1205C1R0□PG00	1.00	100kHz,1V	1.8(2.5)	50.0	29.0	20,30	1R0
HRBC1205C1R2□PG00	1.20	100kHz,1V	1.9(2.4)	47.0	28.0	20,30	1R2
HRBC1205C1R5□PG00	1.50	100kHz,1V	2.7(4.1)	48.0	21.0	20,30	1R5
HRBC1205C2R2□PG00	2.20	100kHz,1V	4.5(5.5)	37.0	21.0	20,30	2R2
HRBC1205C3R3□PG00	3.30	100kHz,1V	7.1(8.4)	32.0	15.0	20,30	3R3
HRBC1205C4R7□PG00	4.70	100kHz,1V	11.4(15.0)	27.0	12.0	20,30	4R7
HRBC1205C6R8□PG00	6.80	100kHz,1V	14.5(18.5)	20.0	11.0	20,30	6R8
HRBC1205C8R2□PG00	8.20	100kHz,1V	19.8(22.5)	18.0	9.5	20,30	8R2
HRBC1205C100□PG00	10.00	100kHz,1V	22.0(25.5)	17.0	9.0	20,30	100
HRBC1205C150□PG00	15.00	100kHz,1V	32.0(38.0)	13.0	8.2	20,30	150
HRBC1205C220□PG00	22.00	100kHz,1V	50.0(58.0)	10.0	6.5	20,30	220
HRBC1205C330□PG00	33.00	100kHz,1V	55.0(65.0)	10.0	5.0	20,30	330
HRBC1205C470□PG00	47.00	100kHz,1V	85.0(100.0)	6.0	4.0	20,30	470
HRBC1205C680□PG00	68.00	100kHz,1V	154.0(180.0)	5.0	3.5	20,30	680
HRBC1205C101□PG00	100.00	100kHz,1V	165.0(200.0)	4.5	3.0	20,30	101

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1265C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1265CR15□PG00	0.15	100kHz,1V	0.5(0.6)	118.0	55.0	20,30	R15
HRBC1265CR22□PG00	0.22	100kHz,1V	0.5(0.6)	112.0	53.0	20,30	R22
HRBC1265CR30□PG00	0.30	100kHz,1V	0.6(0.7)	72.0	48.0	20,30	R30
HRBC1265CR33□PG00	0.33	100kHz,1V	0.7(0.8)	68.0	46.0	20,30	R33
HRBC1265CR36□PG00	0.36	100kHz,1V	0.7(0.8)	66.0	45.0	20,30	R36
HRBC1265CR40□PG00	0.40	100kHz,1V	0.8(1.0)	64.0	44.0	20,30	R40
HRBC1265CR47□PG00	0.47	100kHz,1V	0.9(1.2)	63.0	41.0	20,30	R47
HRBC1265CR50□PG00	0.50	100kHz,1V	0.9(1.3)	60.0	40.0	20,30	R50
HRBC1265CR56□PG00	0.56	100kHz,1V	1.1(1.2)	58.0	37.0	20,30	R56
HRBC1265CR68□PG00	0.68	100kHz,1V	1.3(1.5)	55.0	35.0	20,30	R68
HRBC1265CR82□PG00	0.82	100kHz,1V	1.5(1.9)	50.0	33.0	20,30	R82
HRBC1265C1R0□PG00	1.00	100kHz,1V	1.7(2.3)	48.0	30.0	20,30	1R0
HRBC1265C1R2□PG00	1.20	100kHz,1V	1.9(2.4)	47.0	28.0	20,30	1R2
HRBC1265C1R5□PG00	1.50	100kHz,1V	2.5(3.0)	45.0	27.0	20,30	1R5
HRBC1265C1R8□PG00	1.80	100kHz,1V	3.6(4.0)	40.0	24.0	20,30	1R8
HRBC1265C2R2□PG00	2.20	100kHz,1V	3.8(4.2)	37.0	22.0	20,30	2R2
HRBC1265C2R7□PG00	2.70	100kHz,1V	4.3(5.5)	32.0	20.0	20,30	2R7
HRBC1265C3R3□PG00	3.30	100kHz,1V	5.7(6.8)	30.0	18.0	20,30	3R3
HRBC1265C4R7□PG00	4.70	100kHz,1V	7.0(8.4)	28.0	13.5	20,30	4R7
HRBC1265C5R6□PG00	5.60	100kHz,1V	8.5(10.0)	23.0	12.5	20,30	5R6
HRBC1265C6R8□PG00	6.80	100kHz,1V	9.5(11.5)	18.0	11.5	20,30	6R8
HRBC1265C8R2□PG00	8.20	100kHz,1V	12.0(15.5)	16.0	10.5	20,30	8R2
HRBC1265C100□PG00	10.00	100kHz,1V	13.2(16.5)	15.5	10.0	20,30	100
HRBC1265C130□PG00	13.00	100kHz,1V	21.0(24.0)	13.0	9.0	20,30	130
HRBC1265C150□PG00	15.00	100kHz,1V	23.2(28.0)	13.0	9.0	20,30	150
HRBC1265C220□PG00	22.00	100kHz,1V	32.5(37.0)	12.0	9.0	20,30	220
HRBC1265C330□PG00	33.00	100kHz,1V	48.0(58.0)	11.0	8.0	20,30	330
HRBC1265C470□PG00	47.00	100kHz,1V	76.0(90.0)	9.5	6.5	20,30	470
HRBC1265C680□PG00	68.00	100kHz,1V	110.0(130.0)	7.8	4.8	20,30	680
HRBC1265C101□PG00	100.00	100kHz,1V	130.0(165.0)	5.5	4.2	20,30	101

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

HRBC1707C series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ	Irms(A) Typ	Tolerance (±%)	Marking
HRBC1707C1R0□PG00	1.00	100kHz,1V	1.3(1.5)	70.0	40.0	20,30	1R0
HRBC1707C1R5□PG00	1.50	100kHz,1V	1.8(2.5)	52.0	35.0	20,30	1R5
HRBC1707C2R2□PG00	2.20	100kHz,1V	2.0(3.0)	47.0	30.0	20,30	2R2
HRBC1707C3R3□PG00	3.30	100kHz,1V	2.8(3.5)	45.0	25.0	20,30	3R3
HRBC1707C4R7□PG00	4.70	100kHz,1V	4.2(5.0)	40.0	22.0	20,30	4R7
HRBC1707C6R8□PG00	6.80	100kHz,1V	6.5(7.5)	35.0	19.0	20,30	6R8
HRBC1707C100□PG00	10.00	100kHz,1V	9.0(13.0)	32.0	16.5	20,30	100
HRBC1707C150□PG00	15.00	100kHz,1V	14.5(18.0)	23.0	13.0	20,30	150
HRBC1707C220□PG00	22.00	100kHz,1V	20.5(25.0)	18.0	12.0	20,30	220
HRBC1707C330□PG00	33.00	100kHz,1V	30.0(42.0)	15.0	10.7	20,30	330
HRBC1707C470□PG00	47.00	100kHz,1V	41.0(52.0)	14.0	8.7	20,30	470
HRBC1707C680□PG00	68.00	100kHz,1V	50.0(85.0)	10.0	7.0	20,30	680

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

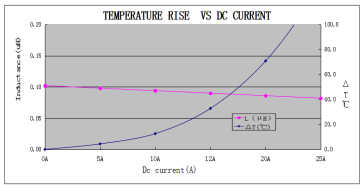
2.Isat: DC current (A) that will cause L0 to drop approximately 30%

3.Irms: DC current (A) that will cause an approximately △T of 40℃

4.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst operating conditions. Circuit design,component placement,PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.

Product Characteristic Curve

HRBC0402C series



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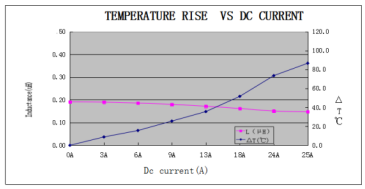

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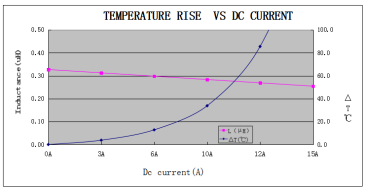

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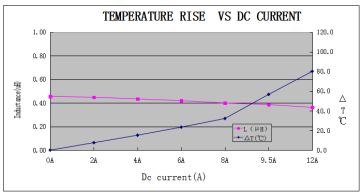

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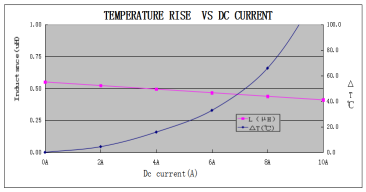

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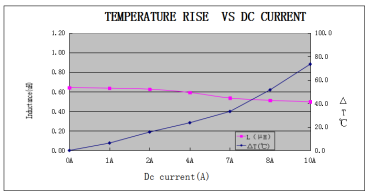

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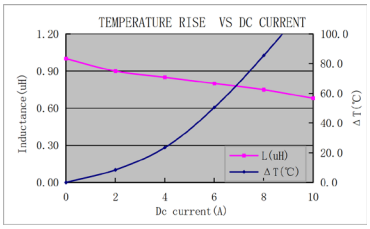

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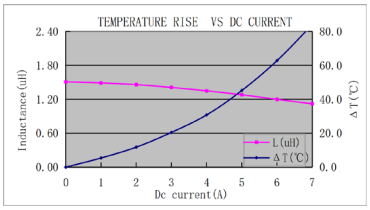

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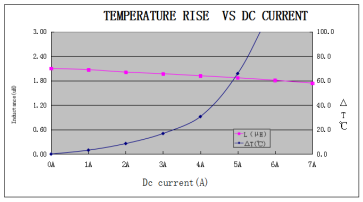

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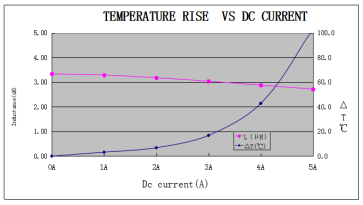

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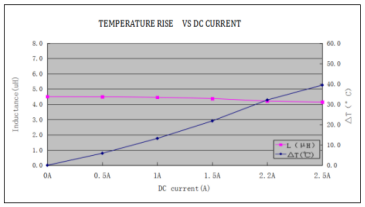

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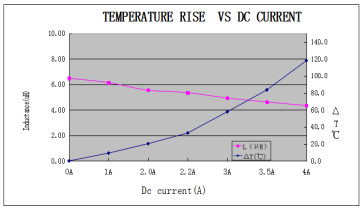

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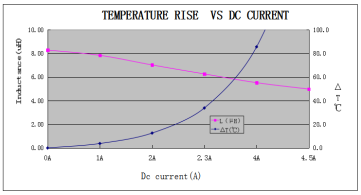

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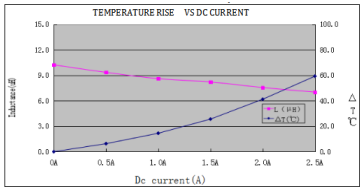

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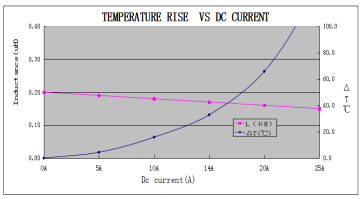
Product Characteristic Curve

HRBC0518C series



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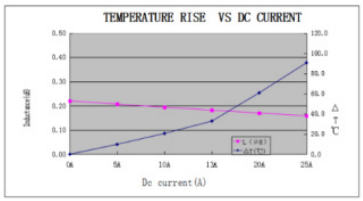

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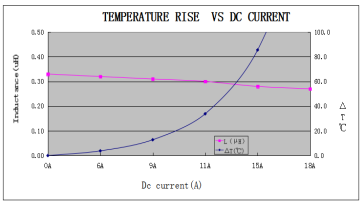

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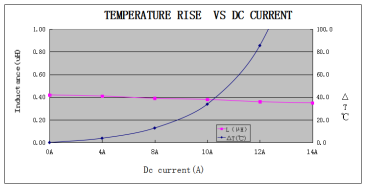

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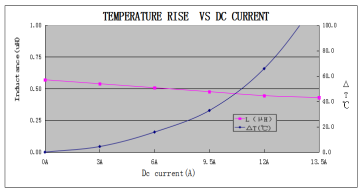

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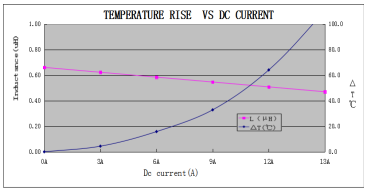

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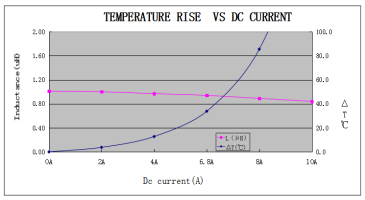

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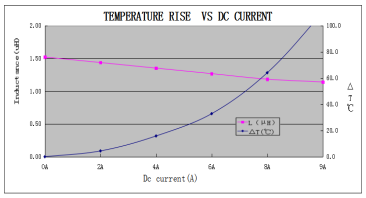

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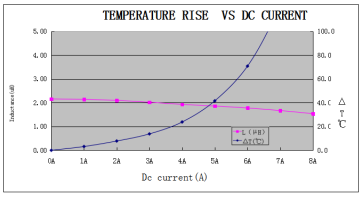

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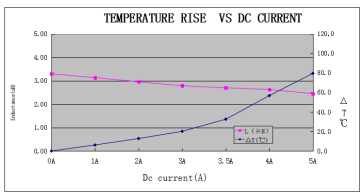

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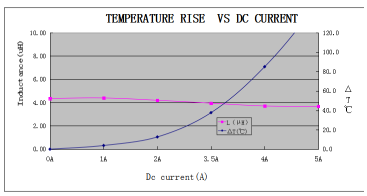

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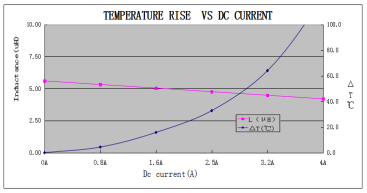

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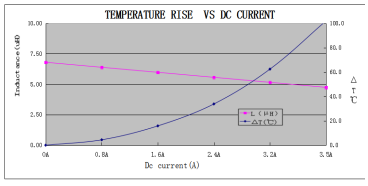

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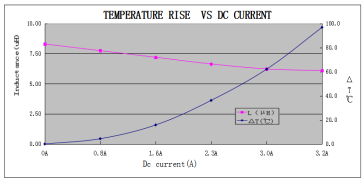

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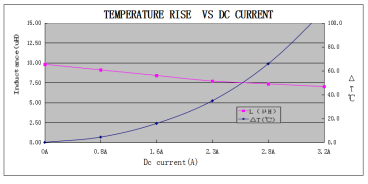

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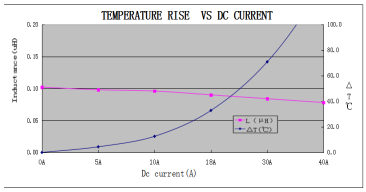
Product Characteristic Curve

HRBC0502C series



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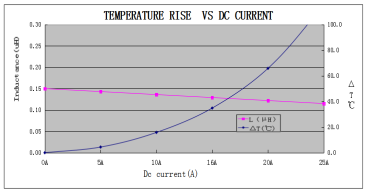

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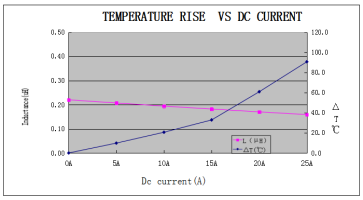

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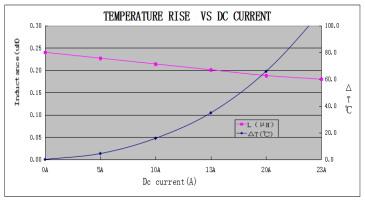

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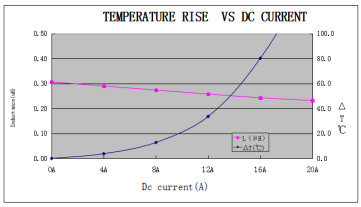

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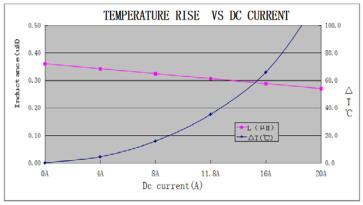

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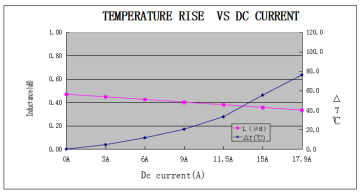

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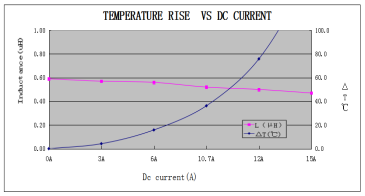

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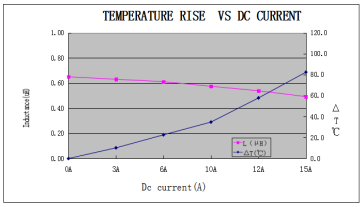

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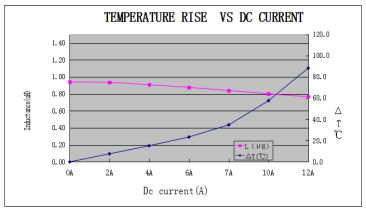

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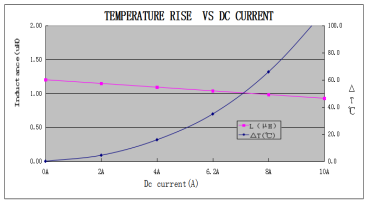

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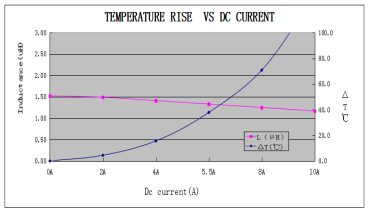

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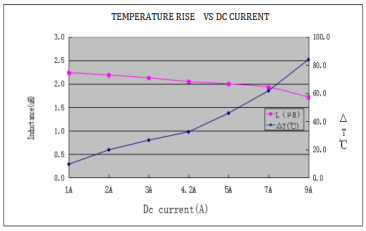

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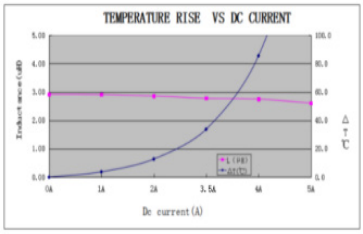

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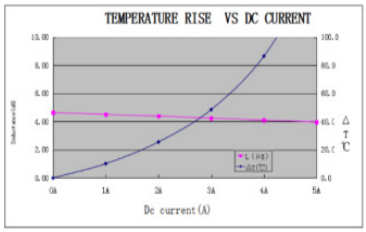

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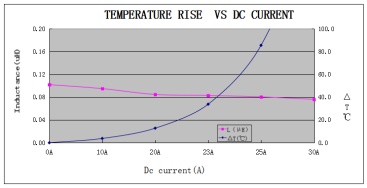
Product Characteristic Curve

HRBC0503C series



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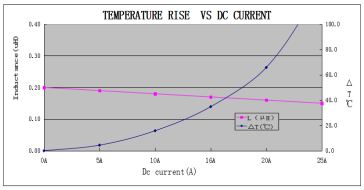

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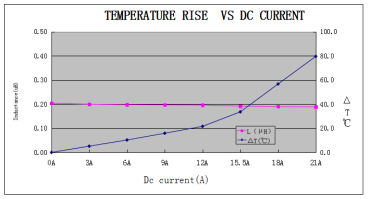

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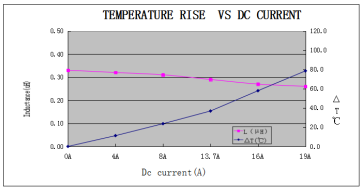

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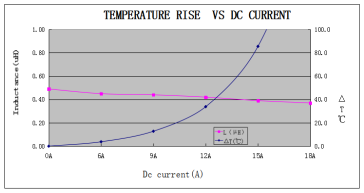

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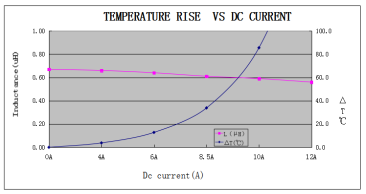

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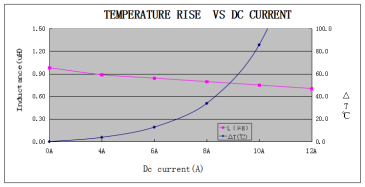

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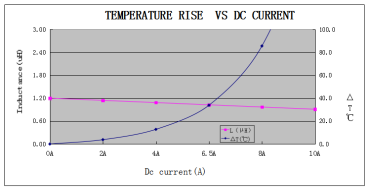

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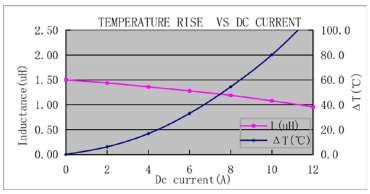

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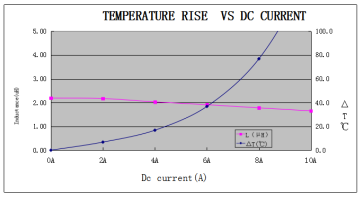

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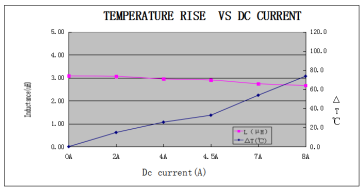

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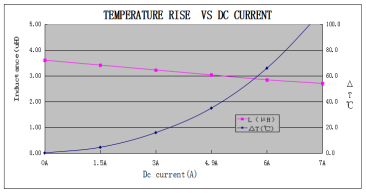

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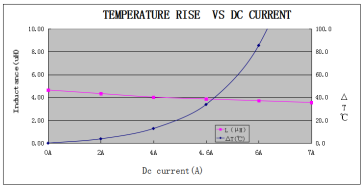

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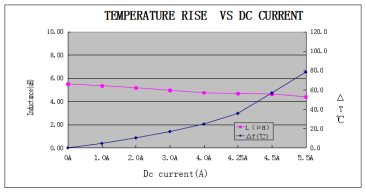

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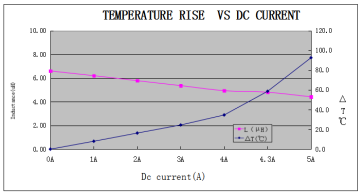

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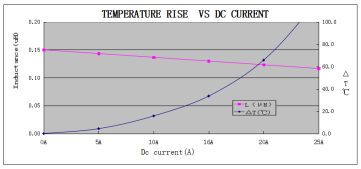
Product Characteristic Curve

HRBC0618C series



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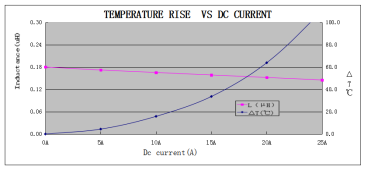

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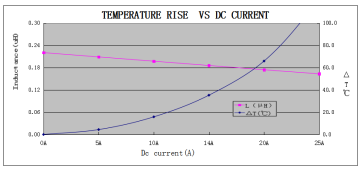

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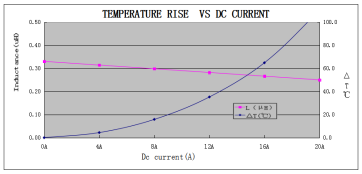

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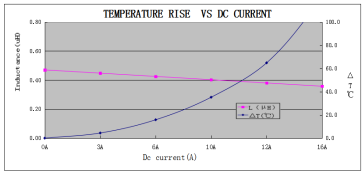

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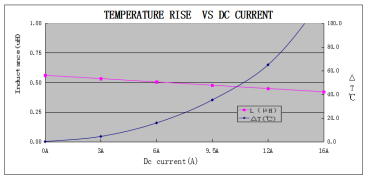

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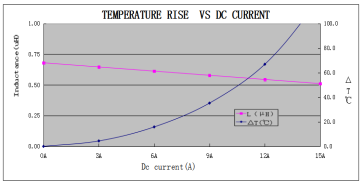

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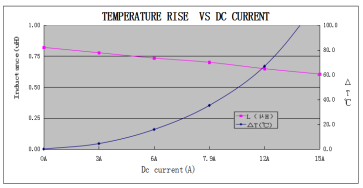

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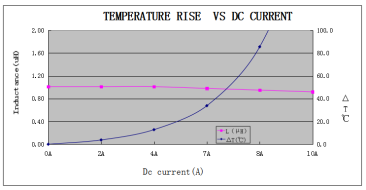

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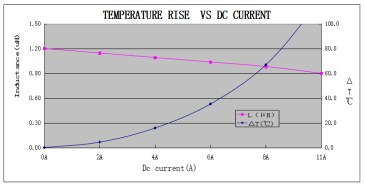

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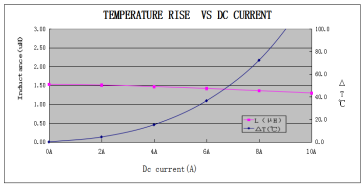

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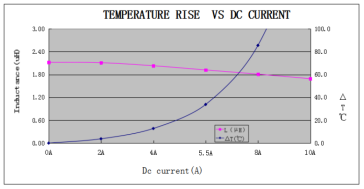

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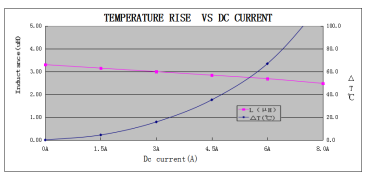

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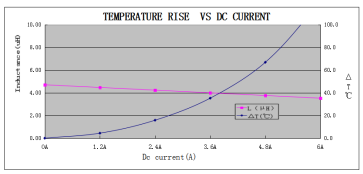

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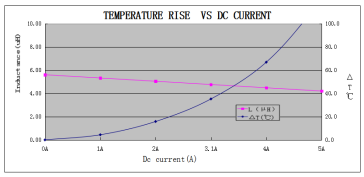

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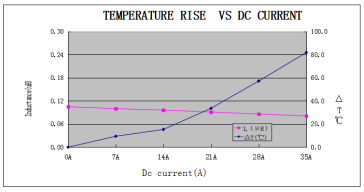
Product Characteristic Curve

HRBC0602C series



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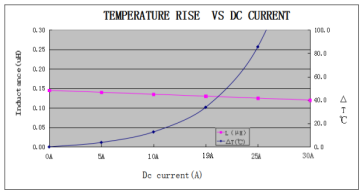

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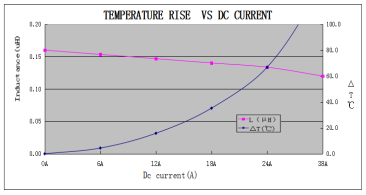

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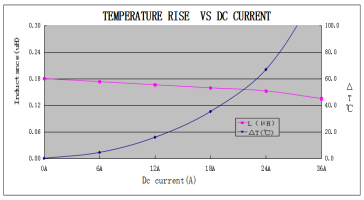

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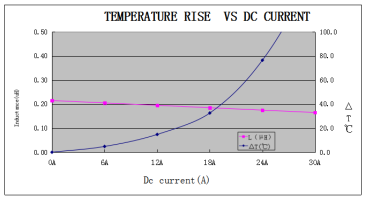

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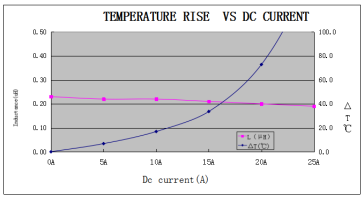

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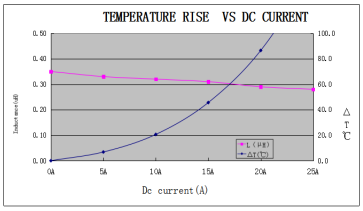

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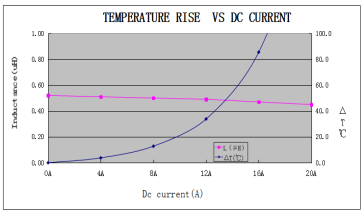

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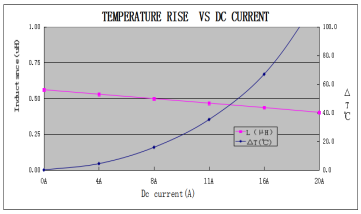

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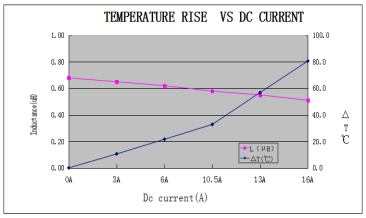

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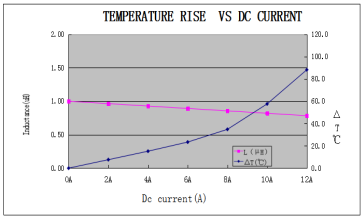

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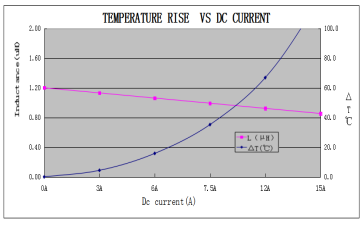

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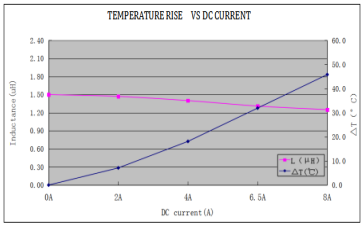

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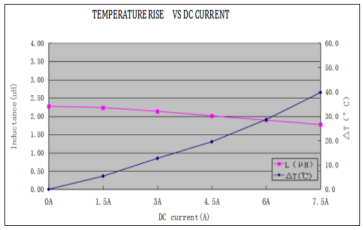

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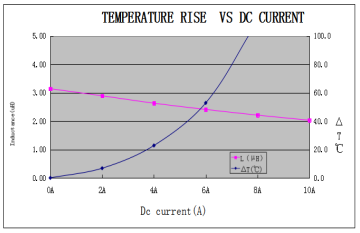

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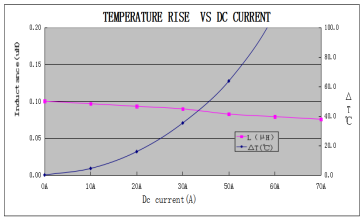
Product Characteristic Curve

HRBC0624C series



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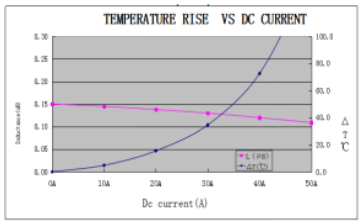

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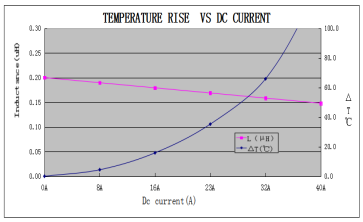

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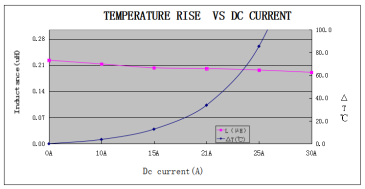

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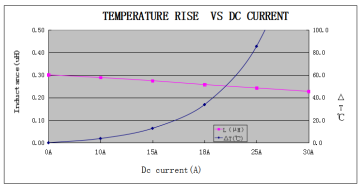

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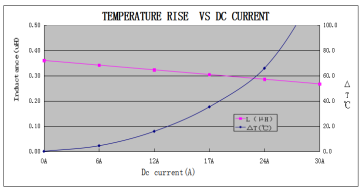

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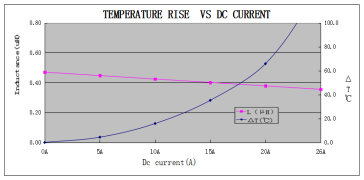

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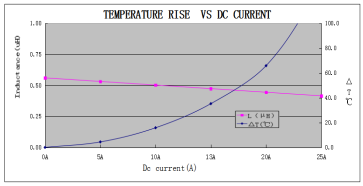

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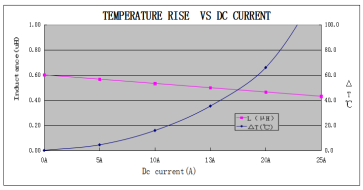

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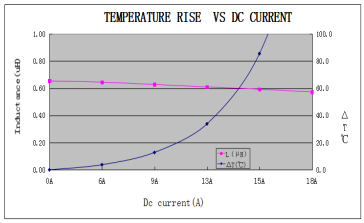

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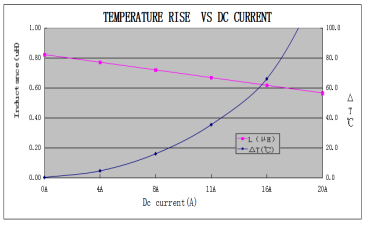

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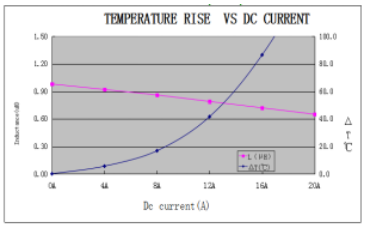

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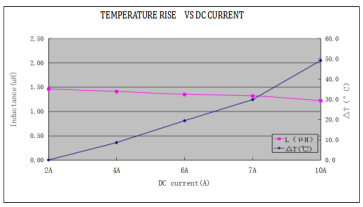

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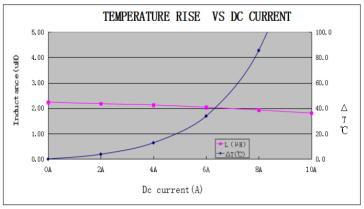

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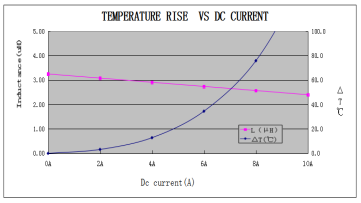

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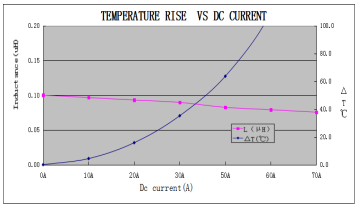
Product Characteristic Curve

HRBC0603C series



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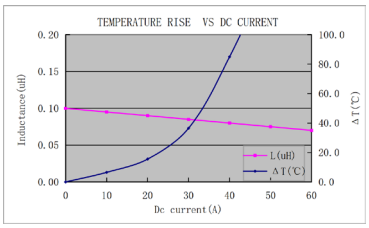

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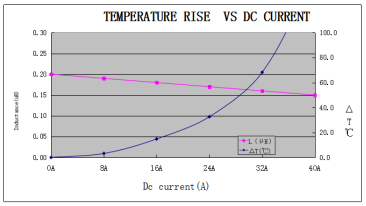

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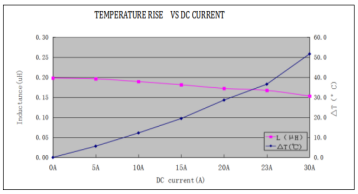

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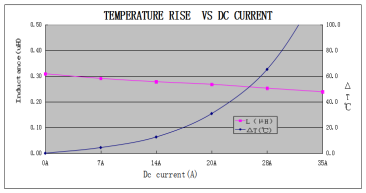

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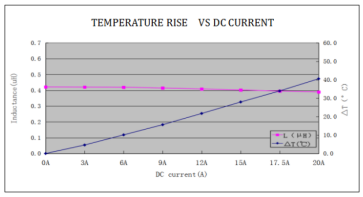

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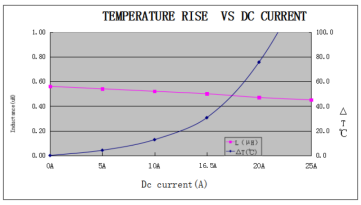

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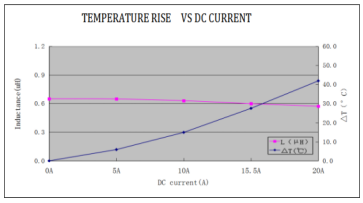

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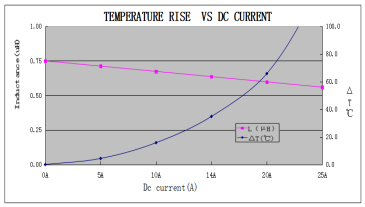

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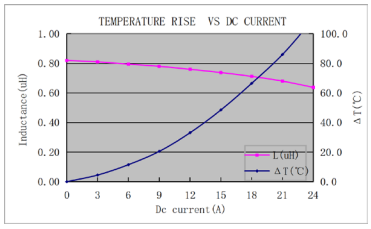

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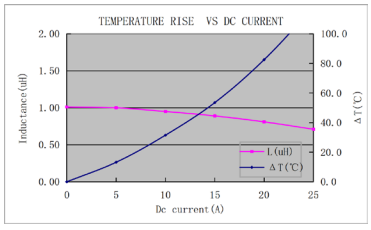

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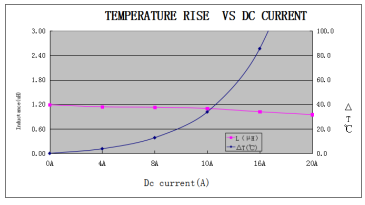

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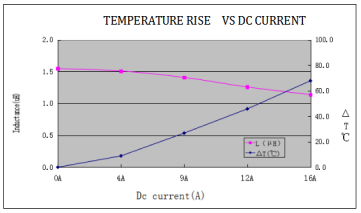

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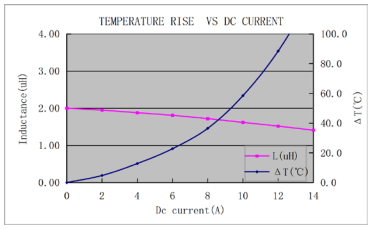

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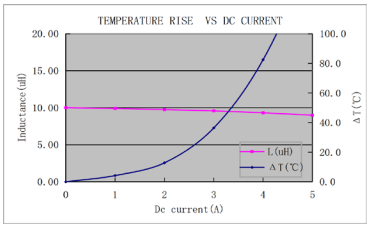

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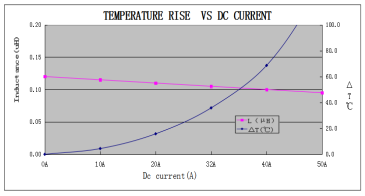
Product Characteristic Curve

HRBC0604C series



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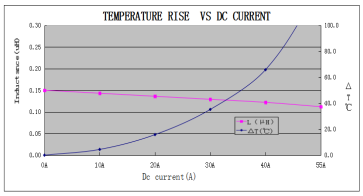

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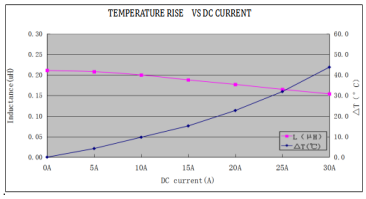

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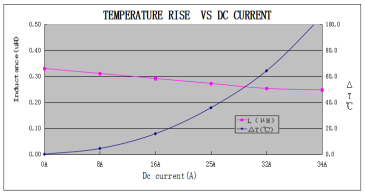

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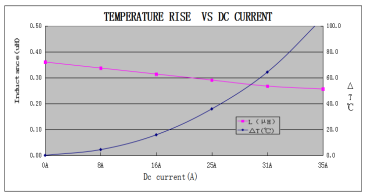

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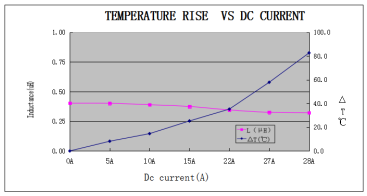

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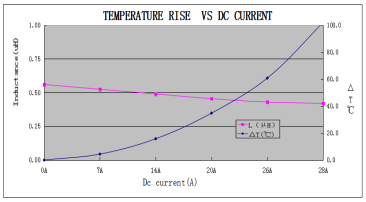

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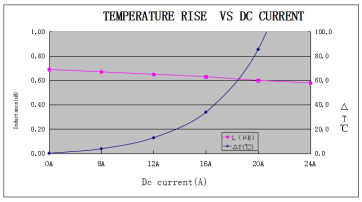

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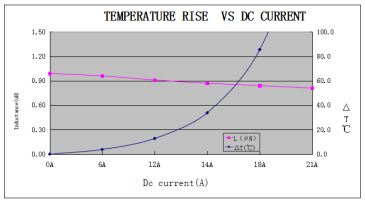

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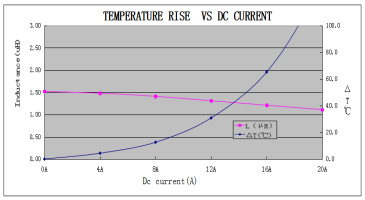

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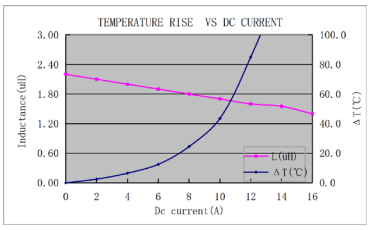

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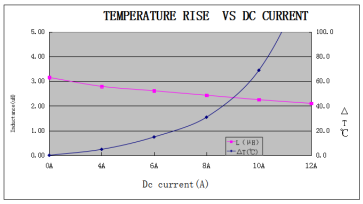

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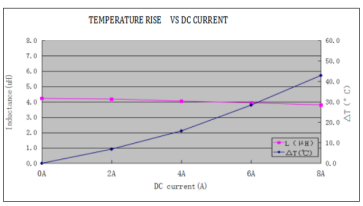

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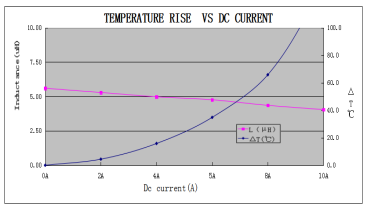

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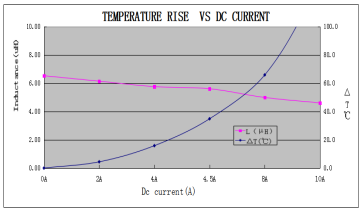

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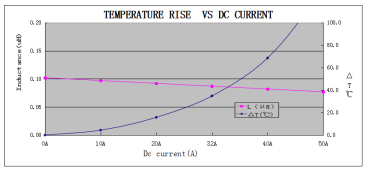
Product Characteristic Curve

HRBC0605C series



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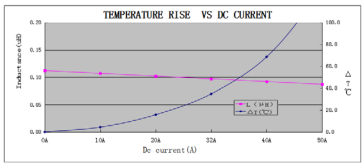

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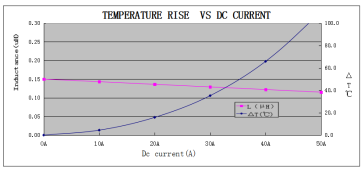

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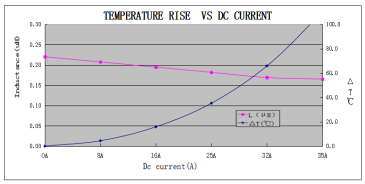

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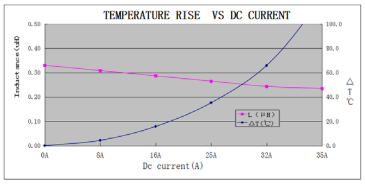

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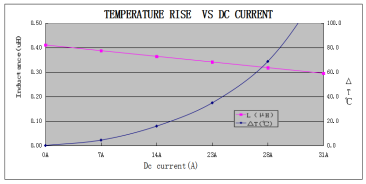

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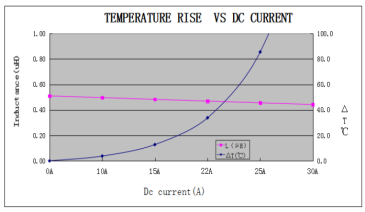

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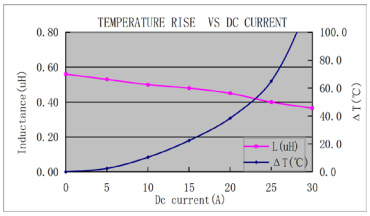

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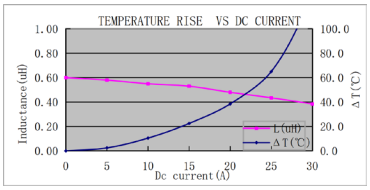

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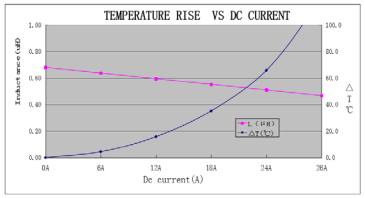

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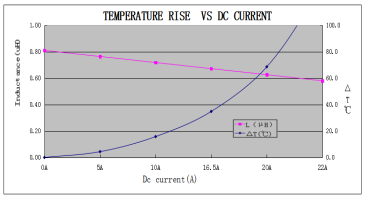

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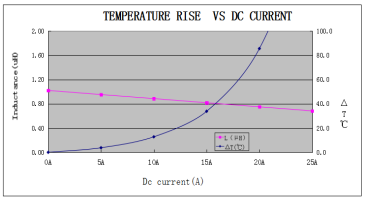

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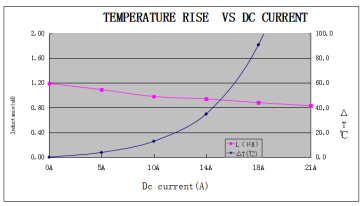

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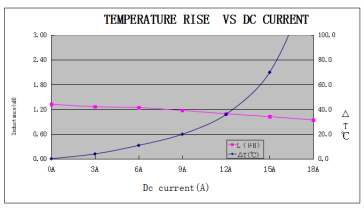

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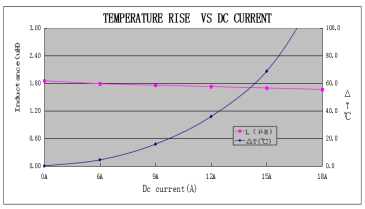

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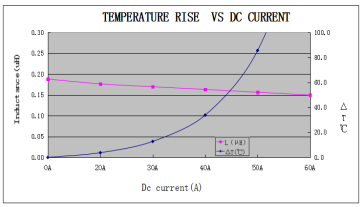
Product Characteristic Curve

HRBC1004C series



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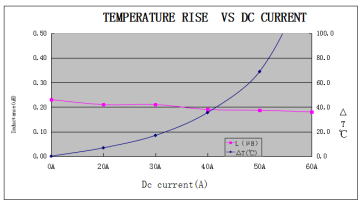

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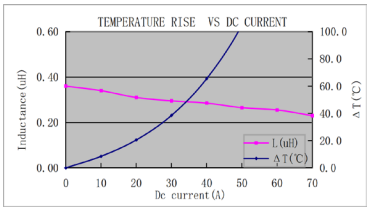

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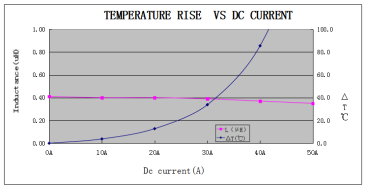

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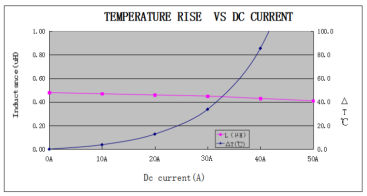

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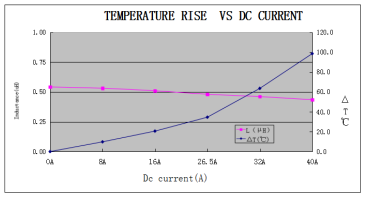

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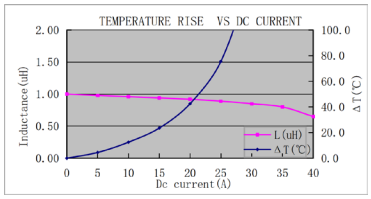

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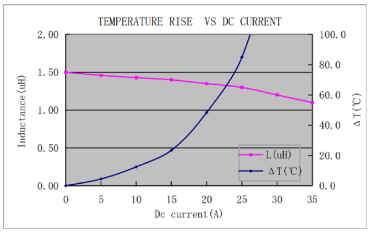

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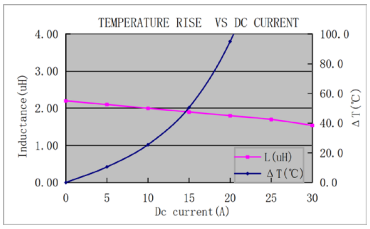

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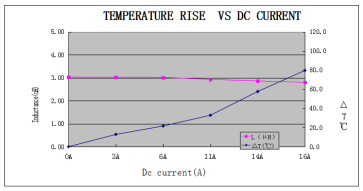

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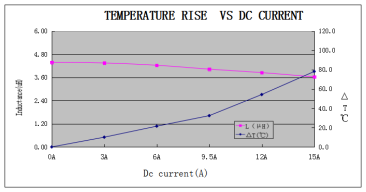

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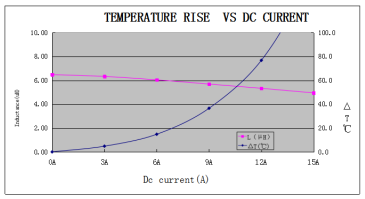

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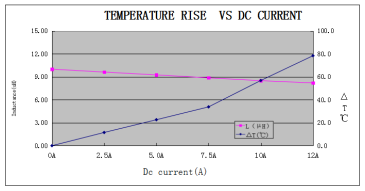

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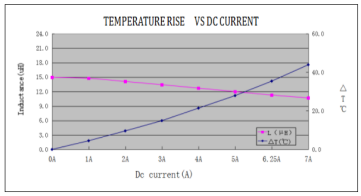

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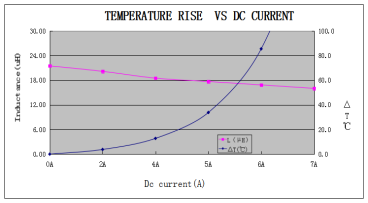

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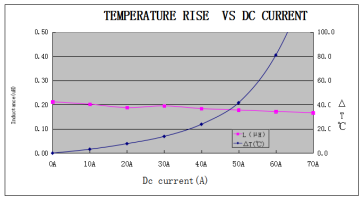
Product Characteristic Curve

HRBC1005C series



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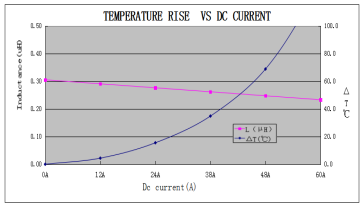

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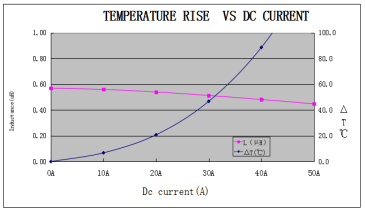

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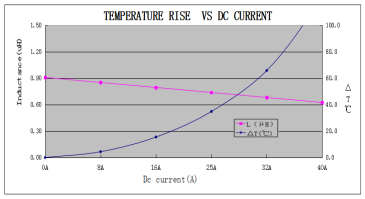

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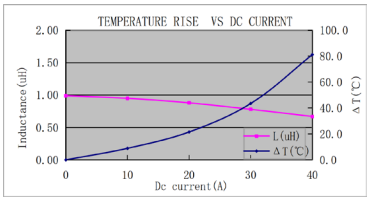

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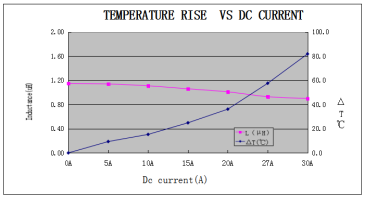

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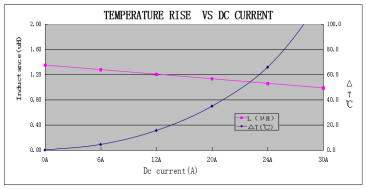

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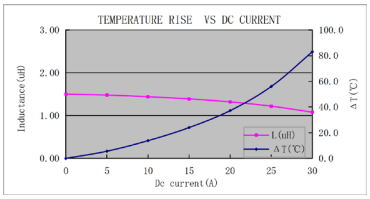

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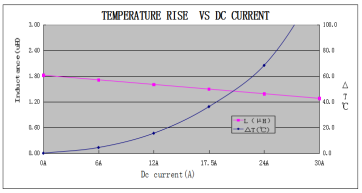

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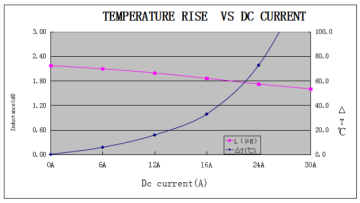

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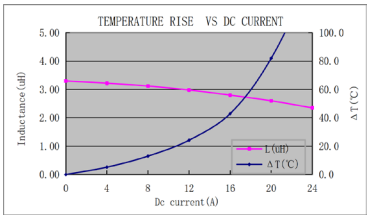

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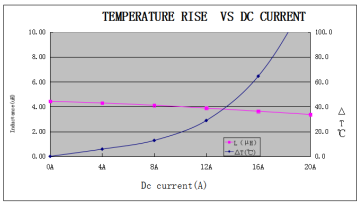

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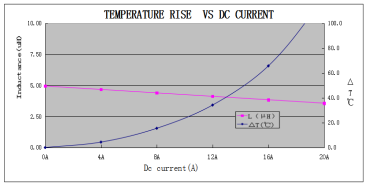

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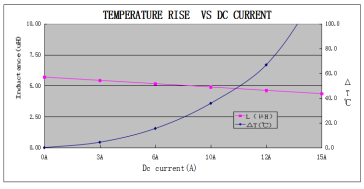

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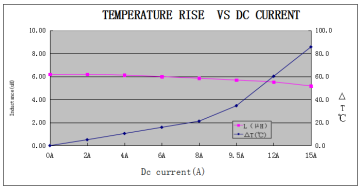

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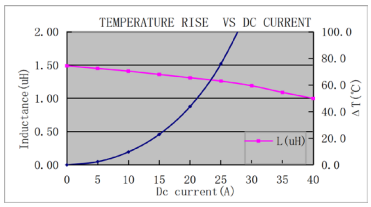
Product Characteristic Curve

HRBC1235C series



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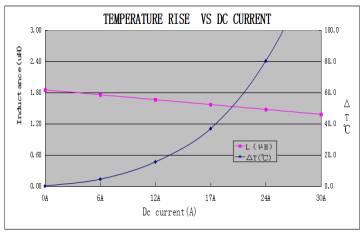

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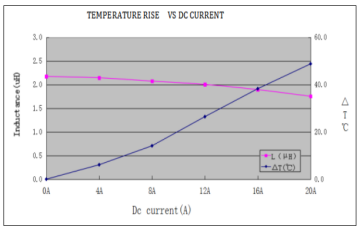

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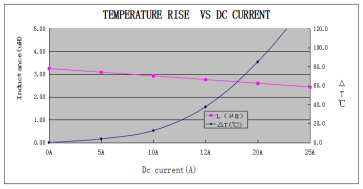

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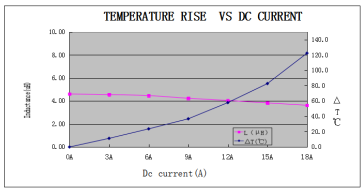

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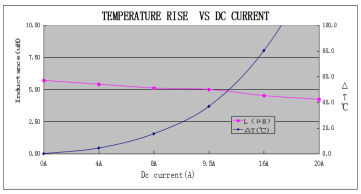

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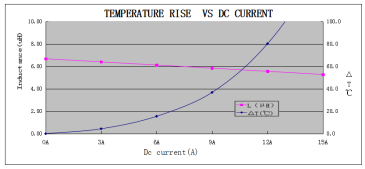

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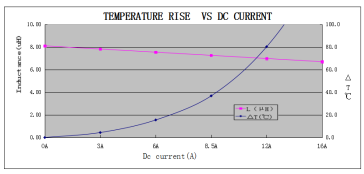

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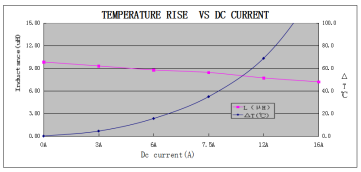

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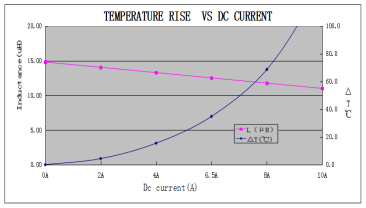

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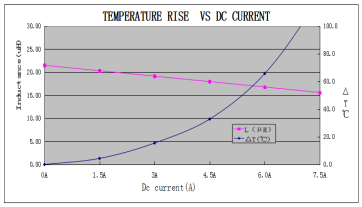

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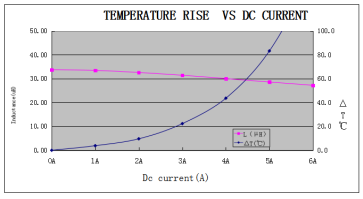

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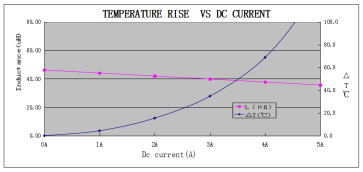

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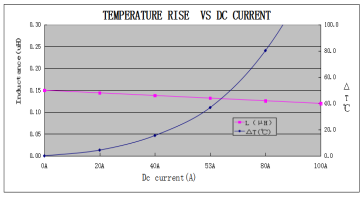
Product Characteristic Curve

HRBC1205C series



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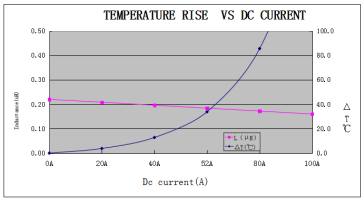

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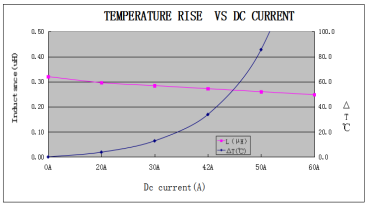

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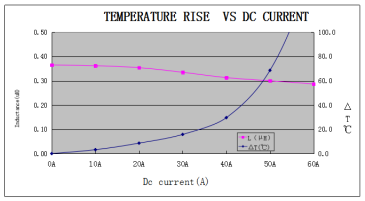

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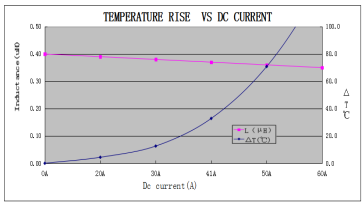

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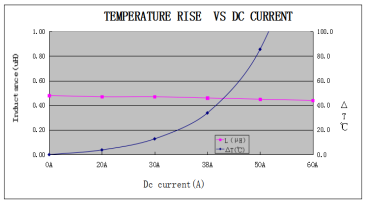

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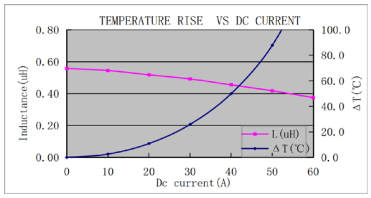

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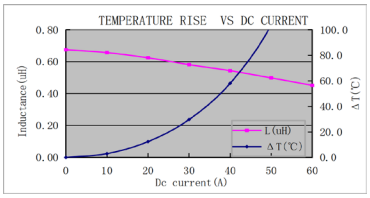

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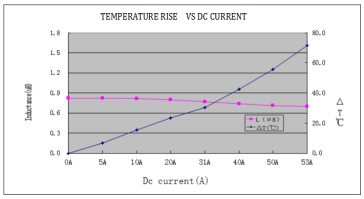

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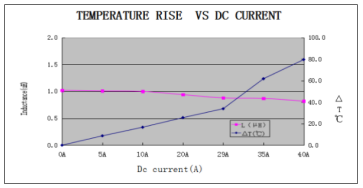

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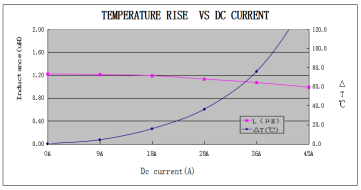

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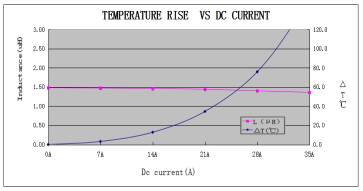

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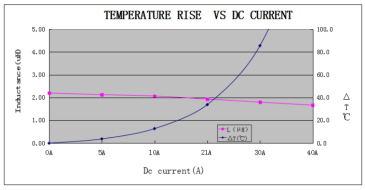

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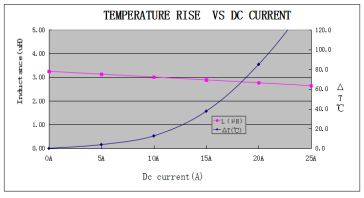

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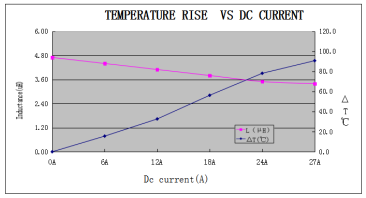

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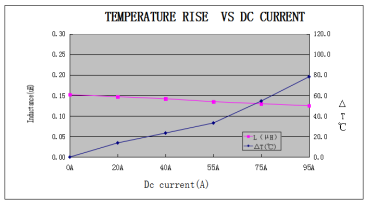
Product Characteristic Curve

HRBC1265C series



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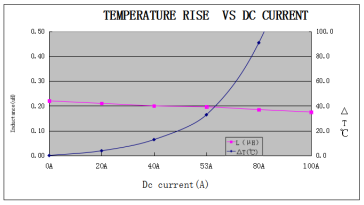

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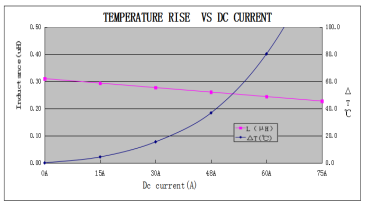

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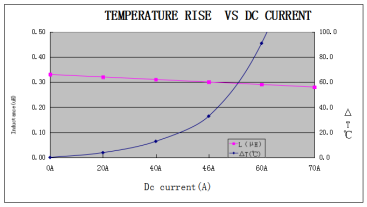

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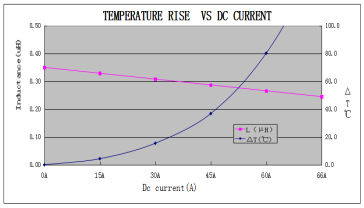

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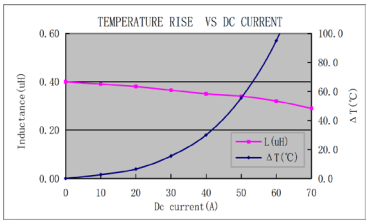

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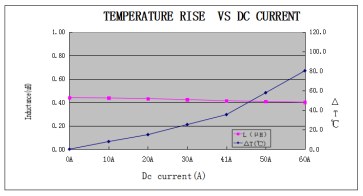

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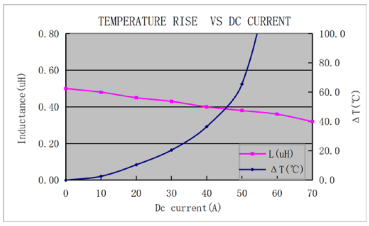

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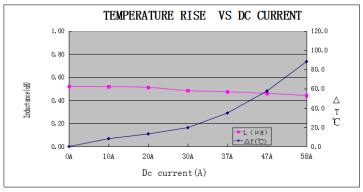

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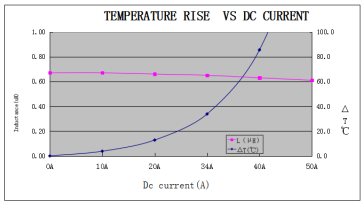

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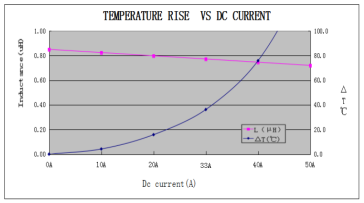

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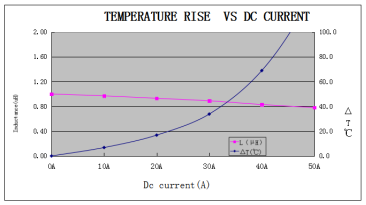

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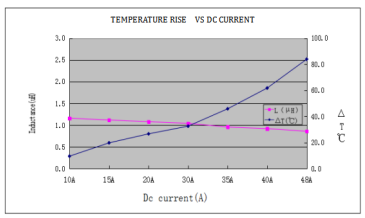

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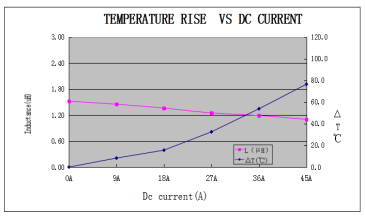

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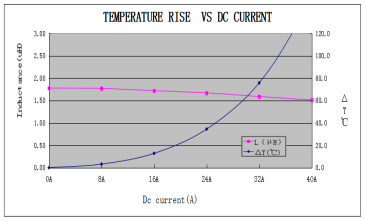

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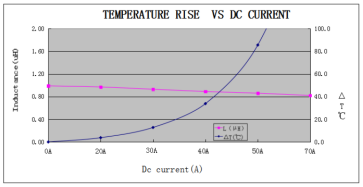
Product Characteristic Curve

HRBC1707C series



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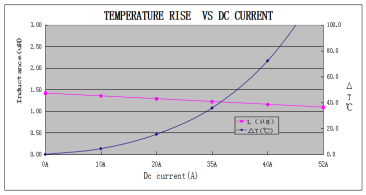

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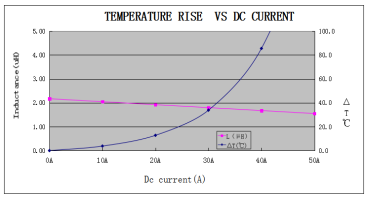

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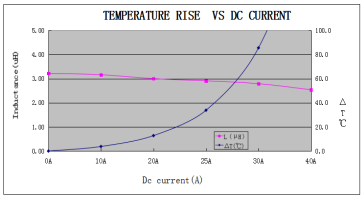

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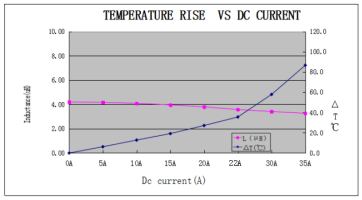

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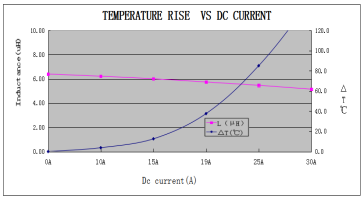

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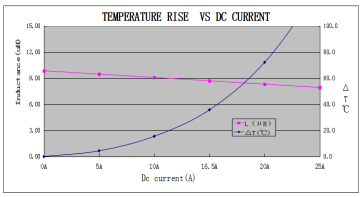

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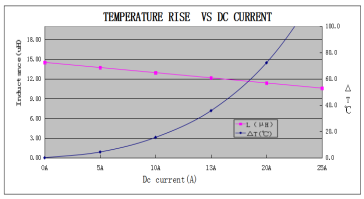

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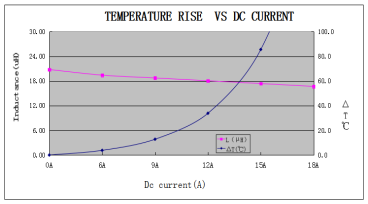

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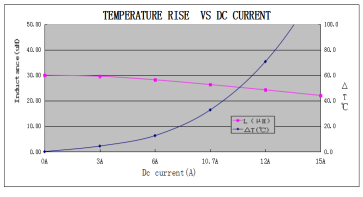

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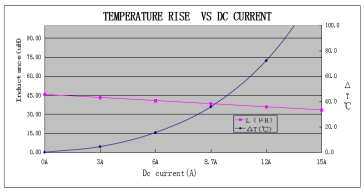

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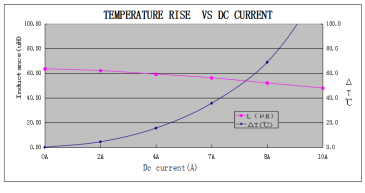

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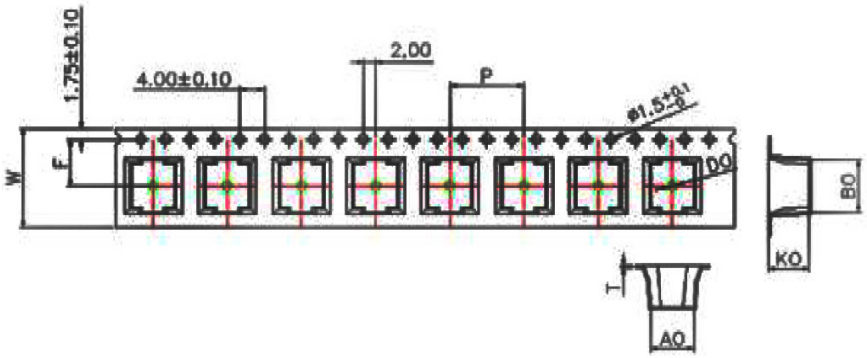
Packaging Specifications



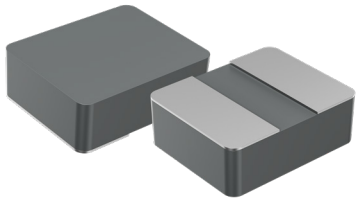
Dimensions in mm

TYPE	Tape Dimensions						Quantity PCS/ REEL
	A0	B0	K0	W	P	T	
HRBC0402C	4.4	5.2	2.2	12.0	8.0	0.30	3000
HRBC0518C	5.4	6.0	2.2	12.0	8.0	0.30	3000
HRBC0502C	5.4	6.0	2.2	12.0	8.0	0.30	3000
HRBC0503C	5.4	6.0	3.2	12.0	8.0	0.30	2500
HRBC0618C	7.0	7.8	2.3	16.0	12.0	0.35	2000
HRBC0602C	7.0	7.8	2.3	16.0	12.0	0.35	2000
HRBC0624C	7.0	7.8	2.6	16.0	12.0	0.35	2000
HRBC0603C	7.0	7.8	3.2	16.0	12.0	0.35	1500
HRBC0604C	7.0	7.8	4.2	16.0	12.0	0.35	1000
HRBC0605C	7.0	7.8	5.2	16.0	12.0	0.35	1000
HRBC1004C	10.7	12.0	4.5	24.0	16.0	0.35	1000
HRBC1005C	10.7	12.0	5.2	24.0	16.0	0.35	500
HRBC1235C	13.3	14.8	3.8	24.0	16.0	0.35	800
HRBC1205C	13.3	14.8	5.3	24.0	16.0	0.35	500
HRBC1265C	13.3	14.8	7.0	24.0	16.0	0.35	500
HRBC1707C	17.4	18.8	7.6	32.0	24.0	0.35	300

ISO9001 / ISO14001 / IATF16949

Automotive
AEC-Q200

HFSC SERIES



FEATURES

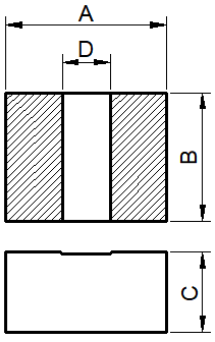
- High performance (Isat) realized by metal dust core
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard

ORDERING CODE

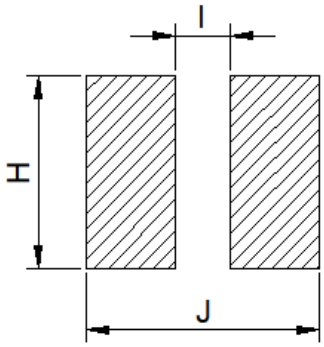
HFSC	201610	M	100	M	P	G	00

Type	Dimensions	Material code	Inductance	Tolerance	Surface	Colour	Tail code
	201610	M：powder	R47：0.47μH	M：±20%	P：plane	G：gray	
	201612		4R7：4.7μH	T：±30%		B：black	
	252010						
	252012						
	322512						
	322520						

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	H	I	J
HFSC201610	2.0±0.2	1.6±0.2	1.0max	0.6Typ	1.7	0.5	2.1
HFSC201612	2.0±0.2	1.6±0.2	1.2max	0.6typ	1.7	0.5	2.1
HFSC252010	2.5±0.2	2.0±0.2	1.0max	0.7typ	2.1	0.6	2.6
HFSC252012	2.5±0.2	2.0±0.2	1.2max	0.7typ	2.1	0.6	2.6
HFSC322512	3.2±0.2	2.5±0.2	1.2max	1.3typ	2.8	0.8	3.7
HFSC322520	3.2±0.2	2.5±0.2	2.0max	1.3typ	2.8	0.8	3.7

HFSC201610 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ(Max)	Irms(A) Typ(Max)	Tolerance (±%)
HFSC201610MR24MPG01	0.24	1MHz,1V	15.0(18.0)	7.8(7.0)	5.8(5.2)	20
HFSC201610MR24MPG00	0.24	1MHz,1V	16.0(20.0)	7.0(6.5)	5.6(5.0)	20
HFSC201610MR33MPG01	0.33	1MHz,1V	18.0(21.0)	7.6(6.8)	5.5(5.0)	20
HFSC201610MR33MPG00	0.33	1MHz,1V	20.0(25.0)	6.8(6.3)	5.3(4.8)	20
HFSC201610MR47MPG01	0.47	1MHz,1V	17.0(22.0)	6.0(5.5)	5.4(4.8)	20
HFSC201610MR47MPG00	0.47	1MHz,1V	18.0(25.0)	5.8(5.3)	4.5(4.0)	20
HFSC201610MR68MPG01	0.68	1MHz,1V	24.0(30.0)	5.0(4.6)	4.8(4.5)	20
HFSC201610MR68MPG00	0.68	1MHz,1V	25.0(32.0)	4.8(4.2)	4.5(4.0)	20
HFSC201610MR82MPG01	0.82	1MHz,1V	30.0(37.0)	4.8(4.3)	4.6(4.3)	20
HFSC201610MR82MPG00	0.82	1MHz,1V	32.0(40.0)	4.5(4.0)	4.3(4.0)	20
HFSC201610M1R0MPG01	1.00	1MHz,1V	30.0(37.0)	4.6(4.2)	4.5(4.2)	20
HFSC201610M1R0MPG00	1.00	1MHz,1V	33.0(42.0)	4.3(3.7)	4.3(4.0)	20
HFSC201610M1R5MPG01	1.50	1MHz,1V	55.0(60.0)	3.8(3.5)	3.4(3.0)	20
HFSC201610M1R5MPG00	1.50	1MHz,1V	60.0(70.0)	3.5(3.0)	3.2(2.8)	20
HFSC201610M2R2MPG01	2.20	1MHz,1V	70.0(82.0)	3.0(2.7)	2.8(2.5)	20
HFSC201610M2R2MPG00	2.20	1MHz,1V	73.0(85.0)	2.8(2.3)	2.6(2.0)	20
HFSC201610M4R7MPG01	4.70	1MHz,1V	190.0(200.0)	2.0(1.8)	1.6(1.4)	20

HFSC201612 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ(Max)	Irms(A) Typ(Max)	Tolerance (±%)
HFSC201612MR47MPG01	0.47	1MHz,1V	17.0(21.0)	6.6(6.0)	5.6(5.1)	20
HFSC201612MR47MPG00	0.47	1MHz,1V	19.0(25.0)	6.0(5.4)	5.3(5.1)	20
HFSC201612M1R0MPG01	1.00	1MHz,1V	28.0(36.0)	4.8(4.2)	4.6(4.2)	20
HFSC201612M1R0MPG00	1.00	1MHz,1V	32.0(40.0)	4.2(3.8)	4.0(3.8)	20
HFSC201612M2R2MPG01	2.20	1MHz,1V	52.0(70.0)	3.3(3.0)	3.1(2.8)	20
HFSC201612M2R2MPG00	2.20	1MHz,1V	65.0(80.0)	2.8(2.5)	2.5(2.2)	20

NOTE: Tolerance M=±20% / T=±30%

1.All test data is referenced to 25℃ ambient.

2.Irms: DC current (A) that will cause an approximate ΔT of 40℃

3.Isat : DC current (A) that will cause L0 to drop approximately 30%

4.Operating Temperature Range -40℃ to +125℃

5.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

6.The rated current as listed is either the saturation current or the heating current depending on which value is lower.

HFSC252010 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ(Max)	Irms(A) Typ(Max)	Tolerance (±%)
HFSC252010MR24MPG01	0.24	1MHz,1V	8.00(10.5)	8.5(7.5)	8.0(7.0)	20
HFSC252010MR24MPG00	0.24	1MHz,1V	10.0(13.0)	8.0(7.3)	7.5(6.5)	20
HFSC252010MR33MPG01	0.33	1MHz,1V	12.0(15.0)	7.0(6.4)	6.4(6.0)	20
HFSC252010MR33MPG00	0.33	1MHz,1V	13.0(16.0)	6.8(6.2)	6.0(5.5)	20
HFSC252010MR47MPG01	0.47	1MHz,1V	15.0(19.0)	6.5(6.0)	6.0(5.6)	20
HFSC252010MR47MPG00	0.47	1MHz,1V	17.0(22.0)	6.0(5.6)	5.8(5.3)	20
HFSC252010MR68MPG01	0.68	1MHz,1V	16.0(21.0)	6.0(5.5)	5.8(5.5)	20
HFSC252010MR68MPG00	0.68	1MHz,1V	20.0(26.0)	5.6(5.2)	5.3(5.0)	20
HFSC252010MR82MPG01	0.82	1MHz,1V	26.0(30.0)	5.95(5.45)	5.7(5.3)	20
HFSC252010MR82MPG00	0.82	1MHz,1V	28.0(35.0)	5.5(5.0)	5.3(4.8)	20
HFSC252010M1R0MPG01	1.00	1MHz,1V	26.0(30.0)	5.9(5.4)	5.7(5.2)	20
HFSC252010M1R0MPG00	1.00	1MHz,1V	27.0(35.0)	5.3(4.5)	5.0(4.5)	20
HFSC252010M1R5MPG01	1.50	1MHz,1V	41.0(47.0)	4.2(3.8)	4.0(3.5)	20
HFSC252010M1R5MPG00	1.50	1MHz,1V	43.0(50.0)	4.0(3.6)	3.8(3.3)	20
HFSC252010M2R2MPG01	2.20	1MHz,1V	64.0(70.0)	3.5(3.0)	2.5(2.1)	20
HFSC252010M2R2MPG00	2.20	1MHz,1V	66.0(75.0)	3.3(2.7)	2.5(2.0)	20
HFSC252010M3R3MPG01	3.30	1MHz,1V	85.0(98.0)	2.6(2.1)	2.1(1.9)	20
HFSC252010M3R3MPG00	3.30	1MHz,1V	95.0(110.0)	2.3(1.8)	2.1(1.6)	20
HFSC252010M4R7MPG01	4.70	1MHz,1V	145.0(160.0)	2.3(2.0)	1.9(1.7)	20
HFSC252010M4R7MPG00	4.70	1MHz,1V	150.0(163.0)	2.2(1.6)	1.7(1.6)	20

HFSN252012 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ(Max)	Irms(A) Typ(Max)	Tolerance (±%)
HFSC252012MR33MPG01	0.33	1MHz,1V	10.0(15.0)	8.5(7.8)	7.0(6.5)	20
HFSC252012MR33MPG00	0.33	1MHz,1V	13.0(18.0)	7.5(7.0)	6.5(6.0)	20
HFSC252012MR47MPG01	0.47	1MHz,1V	13.0(16.0)	7.7(6.9)	6.8(6.2)	20
HFSC252012MR47MPG00	0.47	1MHz,1V	15.0(19.0)	7.0(6.0)	6.0(5.8)	20
HFSC252012MR82MPG01	0.82	1MHz,1V	19.0(23.0)	6.2(5.6)	6.2(5.4)	20
HFSC252012MR82MPG00	0.82	1MHz,1V	21.0(25.0)	5.8(5.2)	5.6(5.0)	20
HFSC252012M1R0MPG01	1.00	1MHz,1V	22.0(25.0)	5.9(5.4)	5.7(5.2)	20
HFSC252012M1R0MPG00	1.00	1MHz,1V	25.0(30.0)	5.5(5.0)	5.3(4.8)	20
HFSC252012M1R2MPG01	1.20	1MHz,1V	34.0(40.0)	5.3(4.5)	5.2(4.5)	20
HFSC252012M1R2MPG00	1.20	1MHz,1V	35.0(45.0)	5.0(4.5)	5.0(4.3)	20
HFSC252012M1R5MPG01	1.50	1MHz,1V	38.0(45.0)	4.8(4.2)	4.0(3.8)	20
HFSC252012M1R5MPG00	1.50	1MHz,1V	40.0(50.0)	4.3(3.8)	4.0(3.5)	20
HFSC252012M2R2MPG01	2.20	1MHz,1V	60.0(72.0)	4.0(3.7)	3.7(3.3)	20.00
HFSC252012M2R2MPG00	2.20	1MHz,1V	65.0(75.0)	3.6(3.3)	3.2(3.0)	20
HFSC252012M4R7MPG01	4.70	1MHz,1V	140.0(150.0)	2.5(2.1)	2.0(1.7)	20.00
HFSC252012M4R7MPG00	4.70	1MHz,1V	120.0(140.0)	2.2(1.8)	1.8(1.5)	20

NOTE: Tolerance M=±20% / T=±30%

1.All test data is referenced to 25℃ ambient.

2.Irms: DC current (A) that will cause an approximate ΔT of 40℃

3.Isat : DC current (A) that will cause L0 to drop approximately 30%

4.Operating Temperature Range -40℃ to +125℃

5.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

6.The rated current as listed is either the saturation current or the heating current depending on which value is lower.

HFSC322512 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ(Max)	Irms(A) Typ(Max)	Tolerance (±%)
HFSC322512MR22MPG00	0.22	1MHz,1V	8.00(9.50)	11.5(10.0)	7.8(7.2)	20
HFSC322512MR47MPG00	0.47	1MHz,1V	16.0(18.5)	9.0(8.2)	6.7(6.2)	20
HFSC322512MR68MPG00	0.68	1MHz,1V	20.0(24.0)	8.0(7.2)	5.8(5.3)	20
HFSC322512M1R0MPG00	1.00	1MHz,1V	26.0(30.0)	7.0(6.2)	4.8(4.2)	20
HFSC322512M1R5MPG00	1.50	1MHz,1V	39.0(45.0)	5.5(5.0)	4.5(4.0)	20
HFSC322512M2R2MPG00	2.20	1MHz,1V	62.0(73.0)	4.5(4.0)	4.0(3.6)	20
HFSC322512M3R3MPG00	3.30	1MHz,1V	80.0(95.0)	3.5(3.1)	3.0(2.7)	20
HFSC322512M4R7MPG00	4.70	1MHz,1V	105(120)	3.0(2.5)	2.5(2.1)	20
HFSC322512M6R8MPG00	6.80	1MHz,1V	170(200)	2.3(2.0)	1.6(1.3)	20

HFSC322520 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ(Max)	Irms(A) Typ(Max)	Tolerance (±%)
HFSC322520MR33MPG00	0.33	1MHz,1V	8.00(9.60)	11.0(10.0)	8.5(8.0)	20
HFSC322520MR47MPG00	0.47	1MHz,1V	9.00(10.5)	10.0(9.0)	8.0(7.5)	20
HFSC322520MR68MPG00	0.68	1MHz,1V	12.5(14.5)	8.6(7.5)	7.0(6.5)	20
HFSC322520M1R0MPG00	1.00	1MHz,1V	18.0(22.0)	7.5(6.5)	6.5(6.0)	20
HFSC322520M1R5MPG00	1.50	1MHz,1V	24.5(28.0)	6.3(5.5)	5.5(5.0)	20
HFSC322520M2R2MPG00	2.20	1MHz,1V	36.5(44.0)	5.4(4.8)	5.0(4.5)	20
HFSC322520M3R3MPG00	3.30	1MHz,1V	54.0(63.0)	4.5(4.0)	3.2(2.7)	20
HFSC322520M4R7MPG00	4.70	1MHz,1V	82.0(95.0)	3.5(3.0)	2.8(2.4)	20

NOTE: Tolerance M=±20% / T=±30%

1.All test data is referenced to 25℃ ambient.

2.Irms: DC current (A) that will cause an approximate ΔT of 40℃

3.Isat : DC current (A) that will cause L0 to drop approximately 30%

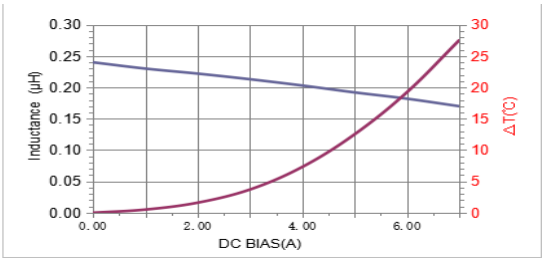
4.Operating Temperature Range -40℃ to +125℃

5.The part temperature (ambient + temp rise) should not exceed 125℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

6.The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Product Characteristic Curve

HFSC2016



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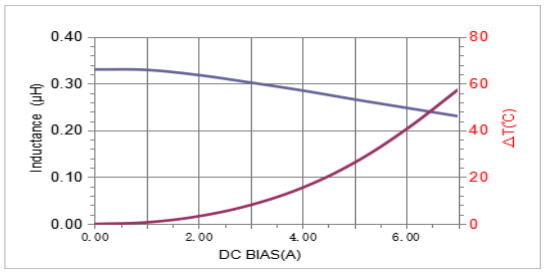

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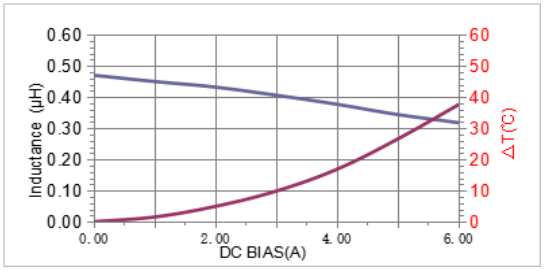

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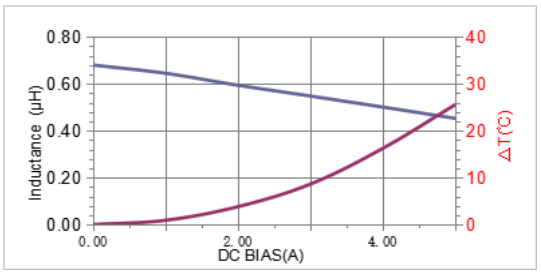

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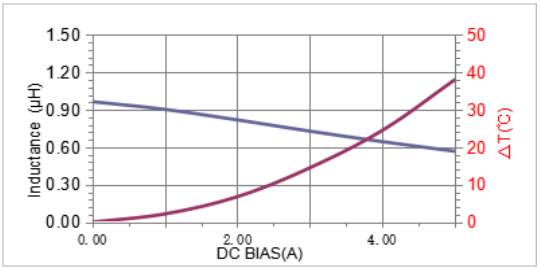

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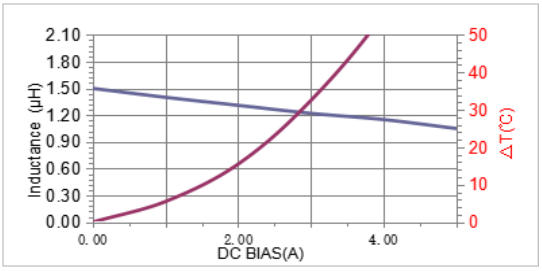

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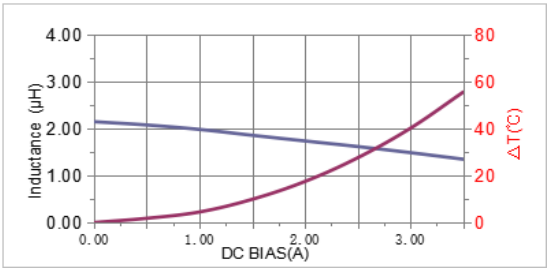

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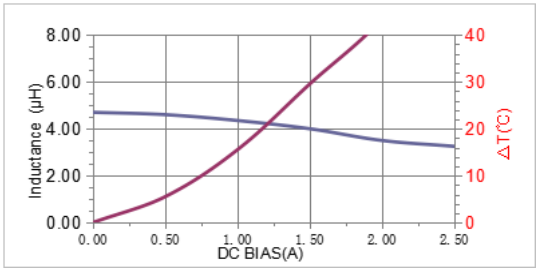

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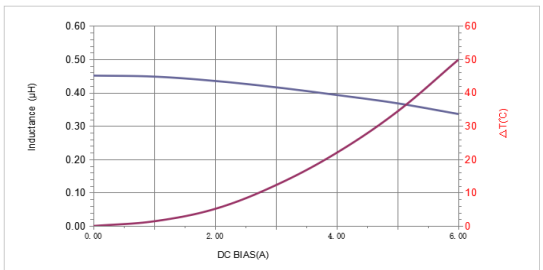

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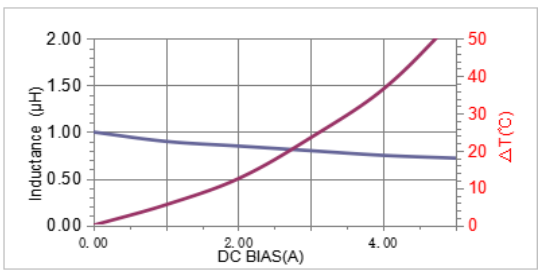

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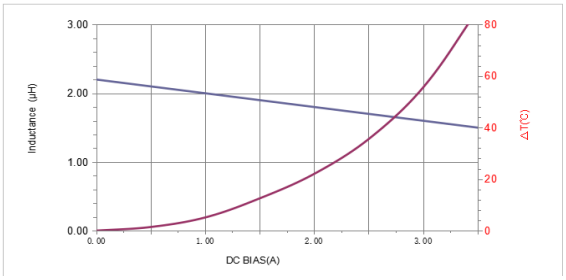

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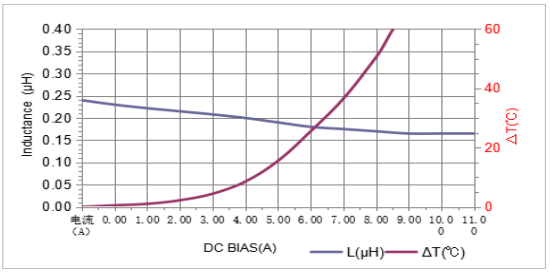
Product Characteristic Curve

HFSC2520



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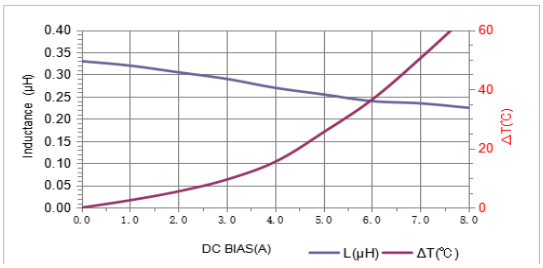

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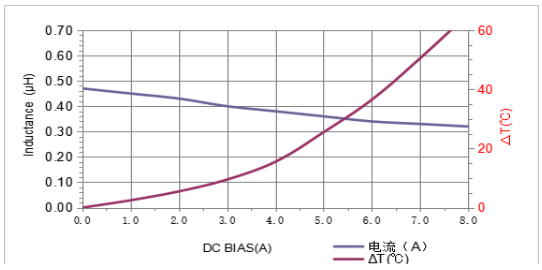

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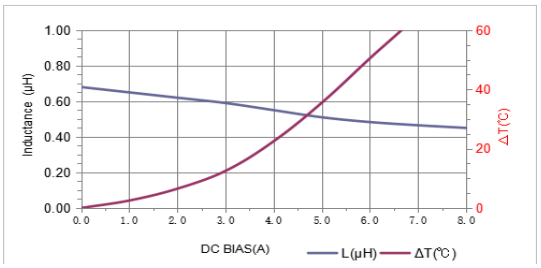

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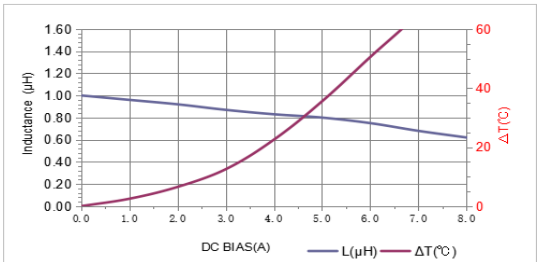

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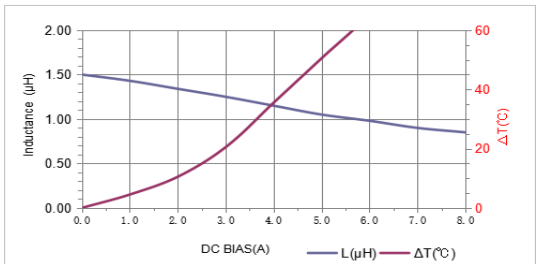

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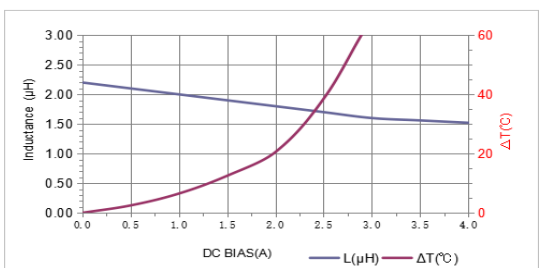

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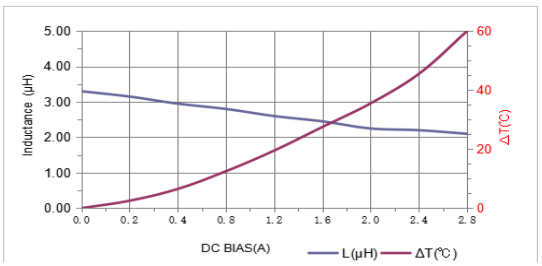

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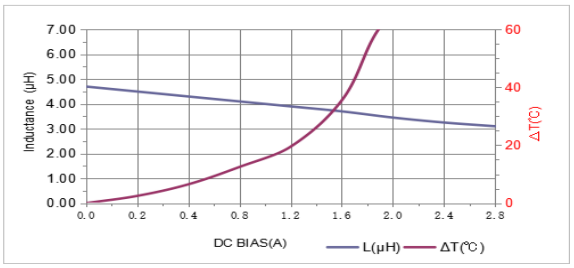

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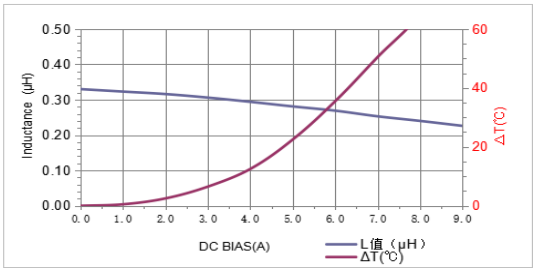

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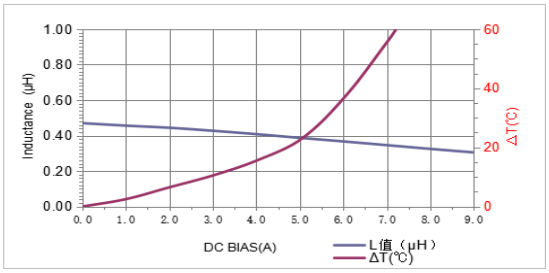

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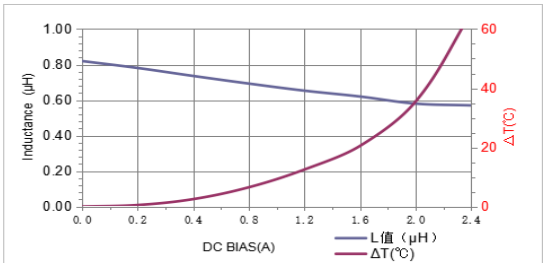

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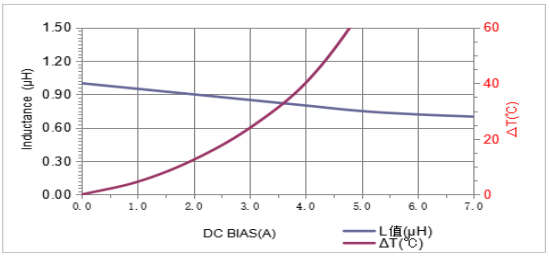

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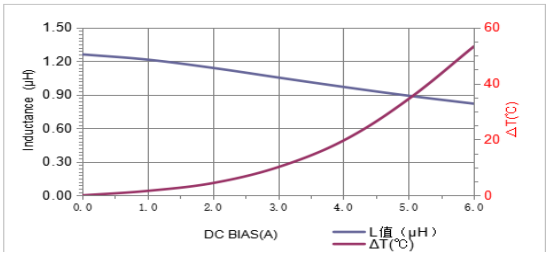

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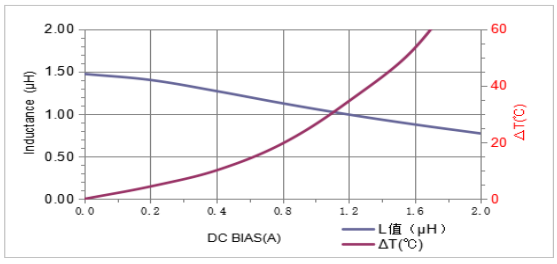

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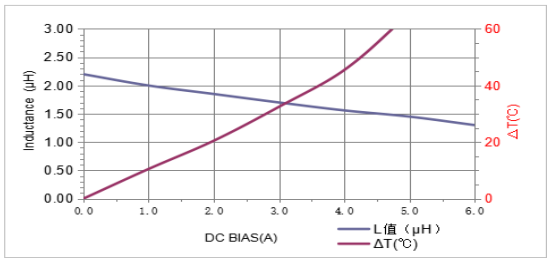

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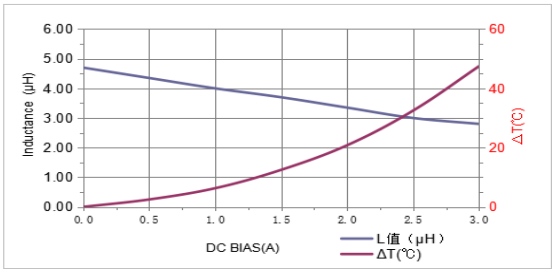

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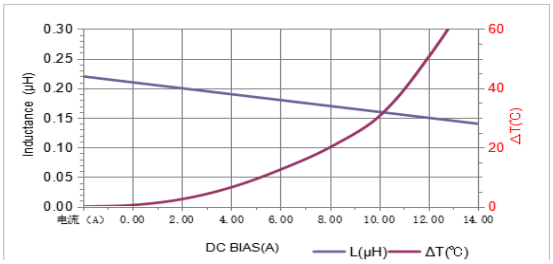
Product Characteristic Curve

HFSC3225



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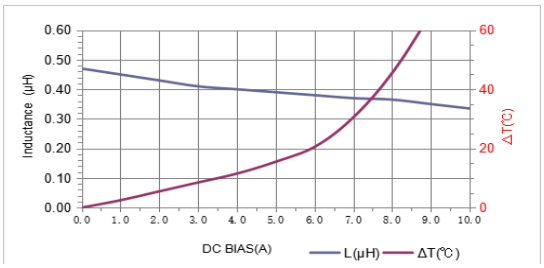

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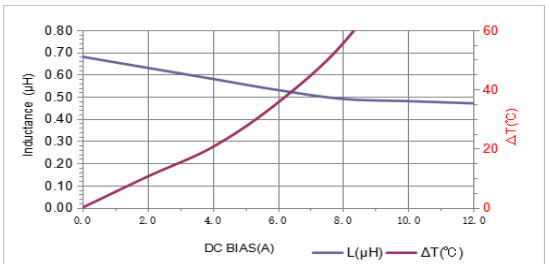

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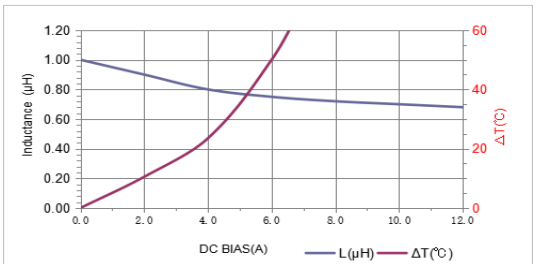

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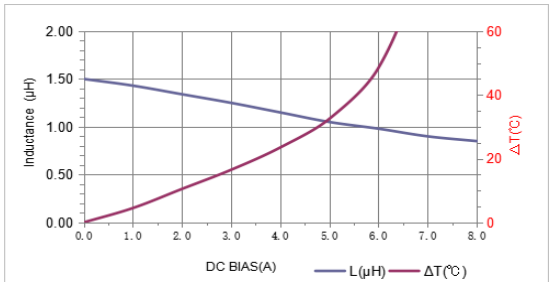

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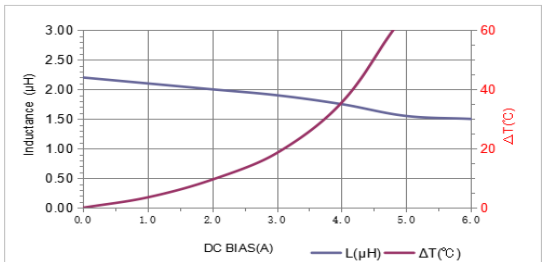

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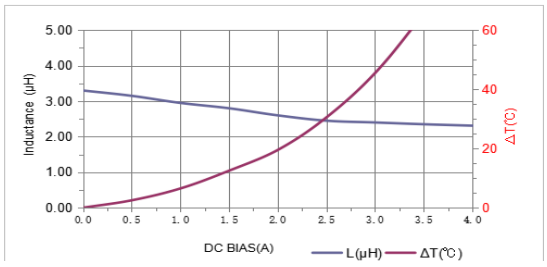

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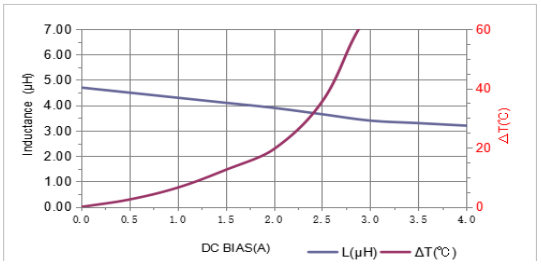

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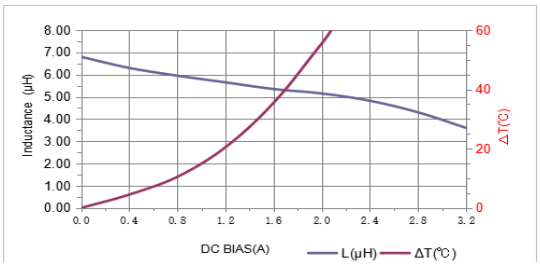

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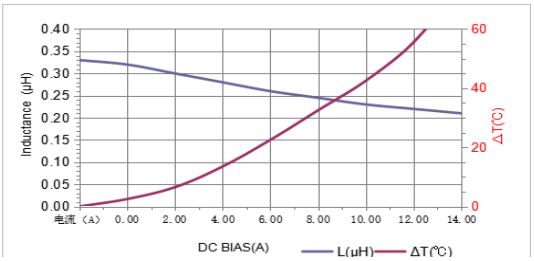

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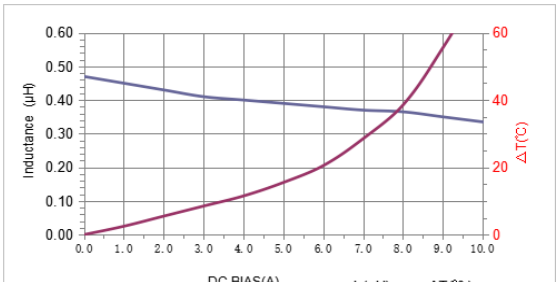

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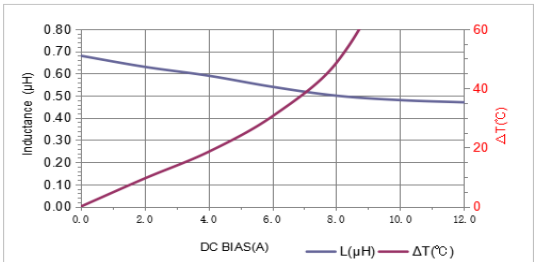

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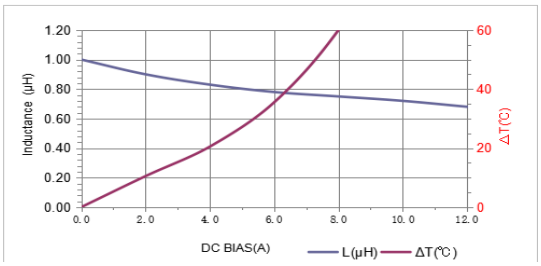

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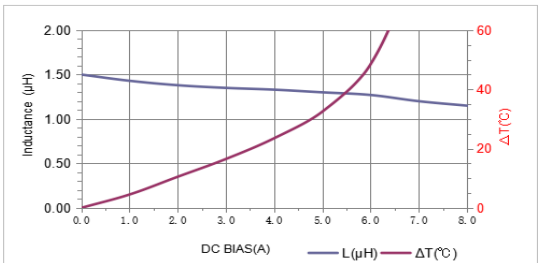

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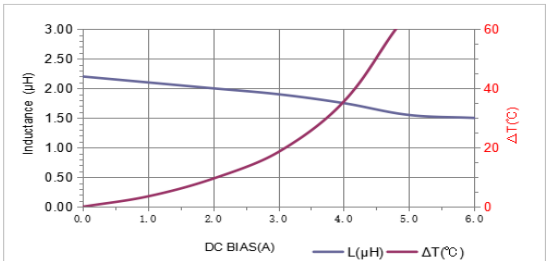

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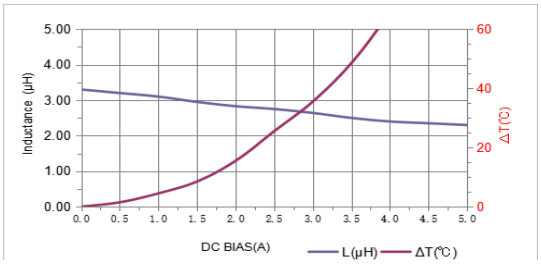

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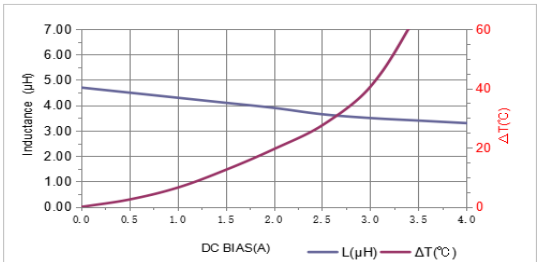

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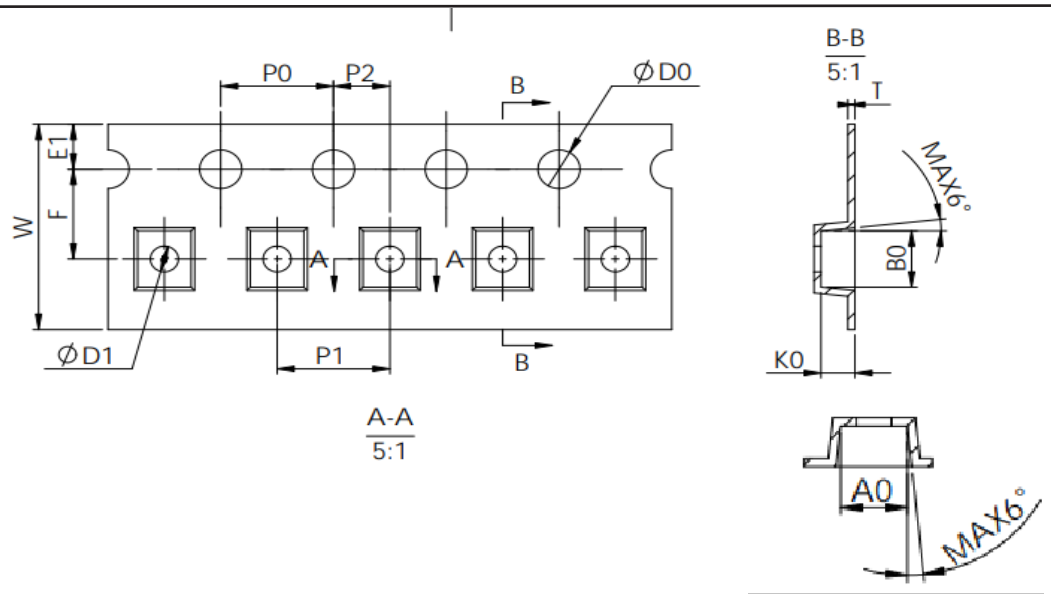
Packaging Specifications



Dimensions in mm

TYPE	Tape Dimensions							Quantity PCS/REEL
	W	P0	A0	B0	T	K0	F	
201610	8.0	4.0	1.9	2.2	0.25	1.2	3.5	3000
201612	8.0	4.0	1.9	2.2	0.25	1.35	3.5	3000
252010	8.0	4.0	2.3	2.8	0.23	1.2	3.5	3000
252012	8.0	4.0	2.3	2.8	0.23	1.35	3.5	3000
322512	8.0	4.0	2.9	3.5	0.25	1.35	3.5	3000
322520	8.0	4.0	2.9	3.5	0.28	2.20	3.5	2000

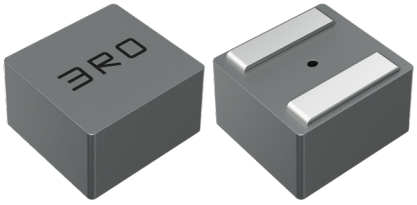
ISO9001 / ISO14001 / IATF16949

Automotive
AEC-Q200

HFBC SERIES

FEATURES

- RoHS compliant
- LSuper low resistance, ultra high current rating
- High performance (Isat) realized by metal dust core



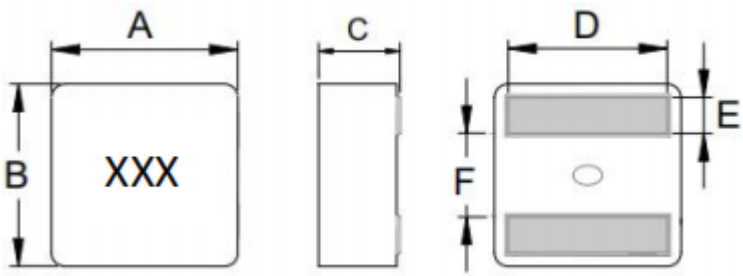
ORDERING CODE

HFBC	0503	A	1R0	M	P	G	00

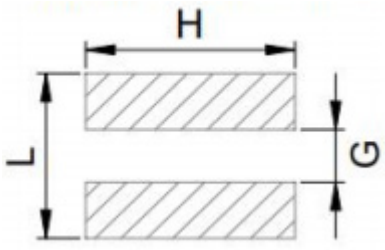
Type	Dimensions	Material code	Inductance	Tolerance	Surface	Colour	Tail code
	0402	A：alloyed	R47：0.47μH	M：±20%	P：plane	G：gray	
	0503	C：carbonyl	4R7：4.7μH	T：±30%		B：black	
	0606						
	0703						
	1010						
	1510						

HFBC

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	L
HFBC0402	4.2±0.2	4.2±0.2	2.15max	3.5typ	1.1typ	1.5typ	1.4typ	3.8typ	3.4typ
HFBC0403	4.2±0.25	4.2±0.25	3.1max	3.5typ	1.1typ	1.5typ	1.4typ	3.8typ	3.4typ
HFBC0502	5.6±0.2	5.5±0.2	2.2max	4.4typ	1.3typ	2.2typ	2.0typ	4.7typ	4.5typ
HFBC0503	5.6±0.2	5.5±0.2	3.1max	4.4typ	1.3typ	2.2typ	2.0typ	4.7typ	4.5typ
HFBC0505	5.6±0.2	5.5±0.2	5.0max	4.4typ	1.3typ	2.2typ	2.0typ	4.7typ	4.5typ
HFBC0603	6.7±0.2	6.5±0.2	3.1max	5.5typ	1.6typ	2.5typ	2.5typ	5.6typ	5.6typ
HFBC0605	6.7±0.2	6.5±0.2	5.0max	5.5typ	1.6typ	2.5typ	2.5typ	5.6typ	5.6typ
HFBC0606	6.7±0.2	6.5±0.2	6.0max	5.5typ	1.6typ	2.5typ	2.5typ	5.6typ	5.6typ
HFBC0703	7.9±0.25	7.7±0.25	3.1max	6.6typ	2.0typ	2.9typ	2.8typ	7.2typ	7.4typ
HFBC0707	7.9±0.25	7.7±0.25	7.0max	6.6typ	2.0typ	2.9typ	2.8typ	7.2typ	7.4typ
HFBC1006	12.2±0.3	11.3±0.3	6.0max	9.5typ	2.6typ	4.2typ	3.7typ	11.0typ	10.5typ
HFBC1010	12.2±0.3	11.3±0.3	10.0max	9.5typ	2.6typ	4.2typ	3.7typ	11.0typ	10.5typ
HFBC1508	16.6±0.3	15.6±0.3	8.0max	13.8typ	3.6typ	7.0typ	6.0typ	15.0typ	15.0typ
HFBC1510	16.6±0.3	15.6±0.3	10.0max	13.8typ	3.6typ	7.0typ	6.0typ	15.0typ	15.0typ

NOTE:

1.DCR testing: As shown in the picture, grips open, four point contact



2.Irms testing was performed on 20mm wide × 6mm thick copper traces in still air.Temperature rise is highly dependent on many factors including pcb land pattern, trace size, and proximity to other components. Therefore temperature rise should be verified in application conditions

HFBC0402 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC0402AR10MPG00	0.10	100kHz,0.1V	2.42	33.0	18.0	R10
HFBC0402AR22MPG00	0.22	100kHz,0.1V	4.60	18.8	16.8	R22
HFBC0402AR36MPG00	0.36	100kHz,0.1V	6.30	15.0	14.5	R36
HFBC0402AR40MPG00	0.40	100kHz,0.1V	7.73	13.5	14.0	R40
HFBC0402AR47MPG00	0.47	100kHz,0.1V	8.58	13.0	12.5	R47
HFBC0402AR56MPG00	0.56	100kHz,0.1V	9.30	12.6	12.0	R56
HFBC0402AR60MPG00	0.60	100kHz,0.1V	9.52	12.3	11.7	R60
HFBC0402AR72MPG00	0.72	100kHz,0.1V	11.60	10.6	10.5	R72
HFBC0402A1R0MPG00	1.00	100kHz,0.1V	14.60	8.8	9.6	1R0
HFBC0402A1R2MPG00	1.20	100kHz,0.1V	17.90	7.8	9.0	1R2
HFBC0402A1R5MPG00	1.50	100kHz,0.1V	23.50	7.4	7.6	1R5
HFBC0402A1R8MPG00	1.80	100kHz,0.1V	28.00	7.0	7.0	1R8
HFBC0402A2R2MPG00	2.20	100kHz,0.1V	38.70	6.0	5.6	2R2

HFBC0403 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC0403AR33MPG00	0.33	100kHz,0.1V	6.80	19.0	15.0	R33
HFBC0403AR47MPG00	0.47	100kHz,0.1V	7.26	17.0	14.0	R47
HFBC0403AR75MPG00	0.75	100kHz,0.1V	10.80	9.0	10.0	R75
HFBC0403A1R0MPG00	1.00	100kHz,0.1V	12.76	8.5	10.0	1R0
HFBC0403A1R8MPG00	1.80	100kHz,0.1V	17.50	6.8	7.5	1R8
HFBC0403A2R2MPG00	2.20	100kHz,0.1V	20.80	7.0	7.2	2R2
HFBC0403A3R3MPG00	3.30	100kHz,0.1V	28.60	5.5	6.6	3R3
HFBC0403A4R7MPG00	4.70	100kHz,0.1V	44.10	4.5	5.1	4R7
HFBC0403A6R8MPG00	6.80	100kHz,0.1V	74.10	3.6	3.9	6R8

NOTE: Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Saturation Current (Isat) will cause L0 to drop approximately 30%.(Internal control standards at 40% max)

3.Irms for a 40℃ temprature rise from 25℃ ambient.

4.Operating voltage: 0 – 55 V

HFBC0502 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC0502AR15MPG00	0.15	100kHz,0.1V	4.6	27.0	18.8	R15
HFBC0502AR16MPG00	0.16	100kHz,0.1V	4.6	27.0	18.8	R16
HFBC0502AR33MPG00	0.33	100kHz,0.1V	7.0	24.0	14.4	R33
HFBC0502AR47MPG00	0.47	100kHz,0.1V	8.1	20.0	14.1	R47
HFBC0502AR56MPG00	0.56	100kHz,0.1V	9.5	16.0	13.9	R56
HFBC0502AR68MPG00	0.68	100kHz,0.1V	10.2	14.0	13.4	R68
HFBC0502AR80MPG00	0.80	100kHz,0.1V	11.8	13.5	13.0	R80
HFBC0502AR82MPG00	0.82	100kHz,0.1V	12.7	13.0	12.0	R82
HFBC0502A1R0MPG00	1.00	100kHz,0.1V	13.8	12.8	10.5	1R0
HFBC0502A1R2MPG00	1.20	100kHz,0.1V	16.3	12.2	9.4	1R2
HFBC0502A1R5MPG00	1.50	100kHz,0.1V	18.7	11.7	8.8	1R5

HFBC0503 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC0503AR15MPG00	0.15	100kHz,0.1V	2.31	32.5	22.2	R15
HFBC0503AR16MPG00	0.16	100kHz,0.1V	2.33	32.0	22.2	R16
HFBC0503AR33MPG00	0.33	100kHz,0.1V	3.52	26.0	19.2	R33
HFBC0503AR47MPG00	0.47	100kHz,0.1V	4.13	24.0	18.4	R47
HFBC0503AR56MPG00	0.56	100kHz,0.1V	4.52	20.2	17.7	R56
HFBC0503AR60MPG00	0.60	100kHz,0.1V	4.52	20.0	17.7	R60
HFBC0503AR80MPG00	0.80	100kHz,0.1V	5.65	18.0	13.1	R80
HFBC0503AR82MPG00	0.82	100kHz,0.1V	5.78	17.6	12.9	R82
HFBC0503A1R0MPG00	1.00	100kHz,0.1V	7.60	14.3	12.2	1R0
HFBC0503A1R2MPG00	1.20	100kHz,0.1V	9.70	13.5	11.0	1R2
HFBC0503A1R5MPG00	1.50	100kHz,0.1V	11.20	12.5	10.5	1R5
HFBC0503A1R8MPG00	1.80	100kHz,0.1V	12.70	11.3	10.1	1R8
HFBC0503A2R2MPG00	2.20	100kHz,0.1V	14.50	9.0	9.7	2R2
HFBC0503A3R3MPG00	3.30	100kHz,0.1V	23.10	8.7	8.1	3R3
HFBC0503A4R7MPG00	4.70	100kHz,0.1V	36.30	7.0	5.9	4R7

NOTE: Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Saturation Current (Isat) will cause L0 to drop approximately 30%.(Internal control standards at 40% max)

3.Irms for a 40℃ temprature rise from 25℃ ambient.

4.Operating voltage: 0 – 55 V

HFBC0505 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC0505A5R6MPG00	5.60	100kHz,0.1V	24.2	7.2	7.2	5R6
HFBC0505A6R8MPG00	6.80	100kHz,0.1V	28.6	6.6	6.4	6R8
HFBC0505A8R2MPG00	8.20	100kHz,0.1V	32.5	6.1	6.1	8R2
HFBC0505A100MPG00	10.00	100kHz,0.1V	43.0	5.4	5.0	100

HFBC0603 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC0603AR18MPG00	0.18	100kHz,0.1V	1.75	39.0	32.0	R18
HFBC0603AR33MPG00	0.33	100kHz,0.1V	2.50	30.0	25.0	R33
HFBC0603AR56MPG00	0.56	100kHz,0.1V	3.31	29.0	22.0	R56
HFBC0603AR68MPG00	0.68	100kHz,0.1V	5.17	25.0	20.0	R68
HFBC0603A1R0MPG00	1.00	100kHz,0.1V	6.05	23.0	18.0	1R0
HFBC0603A1R2MPG00	1.20	100kHz,0.1V	7.40	22.0	16.0	1R2
HFBC0603A1R5MPG00	1.50	100kHz,0.1V	9.13	20.0	15.0	1R5
HFBC0603A1R8MPG00	1.80	100kHz,0.1V	10.20	18.2	14.0	1R8
HFBC0603A2R2MPG00	2.20	100kHz,0.1V	12.20	15.9	10.0	2R2
HFBC0603A3R3MPG00	3.30	100kHz,0.1V	20.80	12.2	8.0	3R3
HFBC0603A4R5MPG00	4.50	100kHz,0.1V	25.30	10.0	7.0	4R5
HFBC0603A4R7MPG00	4.70	100kHz,0.1V	26.00	9.0	6.0	4R7

NOTE: Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Saturation Current (Isat) will cause L0 to drop approximately 30%.(Internal control standards at 40% max)

3.Irms for a 40℃ temprature rise from 25℃ ambient.

4.Operating voltage: 0 – 55 V

HFBC0605 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC0605AR82MPG00	0.82	100kHz,0.1V	4.18	20.0	21.0	R82
HFBC0605A1R0MPG00	1.00	100kHz,0.1V	4.52	18.0	20.0	1R0
HFBC0605A1R2MPG00	1.20	100kHz,0.1V	5.83	16.0	18.0	1R2
HFBC0605A1R5MPG00	1.50	100kHz,0.1V	6.30	14.5	17.0	1R5
HFBC0605A1R8MPG00	1.80	100kHz,0.1V	7.10	13.5	16.0	1R8
HFBC0605A2R2MPG00	2.20	100kHz,0.1V	8.50	12.0	13.0	2R2
HFBC0605A3R3MPG00	3.30	100kHz,0.1V	12.50	10.0	11.0	3R3
HFBC0605A4R3MPG00	4.30	100kHz,0.1V	16.20	8.5	9.0	4R3
HFBC0605A4R7MPG00	4.70	100kHz,0.1V	18.40	8.0	8.5	4R7
HFBC0605A5R6MPG00	5.60	100kHz,0.1V	22.00	8.3	7.0	5R6
HFBC0605A6R8MPG00	6.80	100kHz,0.1V	25.40	7.0	6.6	6R8
HFBC0605A8R2MPG00	8.20	100kHz,0.1V	31.50	6.8	6.2	8R2

HFBC0606 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC0606A4R7MPG00	4.70	100kHz,0.1V	14.40	10.5	11.0	4R7
HFBC0606A5R6MPG00	5.60	100kHz,0.1V	15.90	9.9	10.0	5R6
HFBC0606A6R8MPG00	6.80	100kHz,0.1V	20.80	9.2	9.0	6R8
HFBC0606A8R2MPG00	8.20	100kHz,0.1V	26.40	8.4	8.0	8R2
HFBC0606A100MPG00	10.00	100kHz,0.1V	29.82	7.6	7.0	100
HFBC0606A150MPG00	15.00	100kHz,0.1V	43.75	5.8	6.0	150
HFBC0606A220MPG00	22.00	100kHz,0.1V	60.63	5.6	5.0	220

NOTE: Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Saturation Current (Isat) will cause L0 to drop approximately 30%.(Internal control standards at 40% max)

3.Irms for a 40℃ temprature rise from 25℃ ambient.

4.Operating voltage: 0 – 55 V

HFBC0703 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC0703A1R0MPG00	1.00	100kHz,0.1V	5.00	28.0	21.8	1R0
HFBC0703A1R5MPG00	1.50	100kHz,0.1V	8.25	23.5	15.3	1R5
HFBC0703A2R2MPG00	2.20	100kHz,0.1V	13.70	17.0	13.0	2R2
HFBC0703A2R7MPG00	2.70	100kHz,0.1V	15.40	13.5	11.4	2R7
HFBC0703A3R3MPG00	3.30	100kHz,0.1V	18.00	13.0	10.0	3R3
HFBC0703A4R7MPG00	4.70	100kHz,0.1V	26.70	12.2	9.0	4R7
HFBC0703A5R6MPG00	5.60	100kHz,0.1V	33.20	11.5	7.3	5R6
HFBC0703A6R8MPG00	6.80	100kHz,0.1V	42.50	11.0	6.8	6R8
HFBC0703A8R2MPG00	8.20	100kHz,0.1V	48.73	9.0	5.9	8R2

HFBC0707 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC0707A3R3MPG00	3.30	100kHz,0.1V	9.42	19.4	15.1	3R3
HFBC0707A4R7MPG00	4.70	100kHz,0.1V	14.26	15.2	13.6	4R7
HFBC0707A6R8MPG00	6.80	100kHz,0.1V	19.60	12.8	9.2	6R8

NOTE: Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Saturation Current (Isat) will cause L0 to drop approximately 30%.(Internal control standards at 40% max)

3.Irms for a 40℃ temprature rise from 25℃ ambient.

4.Operating voltage: 0 – 55 V

HFBC1006 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC1006AR40MTG00	0.40	100kHz,0.1V	0.90	82.0	36.8	R40
HFBC1006AR68MTG00	0.68	100kHz,0.1V	1.60	52.0	33.9	R68
HFBC1006A1R2MTG00	1.20	100kHz,0.1V	2.80	43.0	26.3	1R2
HFBC1006A1R5MTG00	1.50	100kHz,0.1V	3.40	36.0	26.0	1R5
HFBC1006A2R2MTG00	2.20	100kHz,0.1V	5.10	32.0	20.0	2R2
HFBC1006A3R3MTG00	3.30	100kHz,0.1V	8.10	26.0	16.8	3R3
HFBC1006A4R7MTG00	4.70	100kHz,0.1V	10.90	25.0	14.0	4R7

HFBC1010 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC1010A1R0MTG00	1.00	100kHz,0.1V	1.20	50.0	40.0	1R0
HFBC1010A2R2MTG00	2.20	100kHz,0.1V	2.80	34.0	32.0	2R2
HFBC1010A3R3MTG00	3.30	100kHz,0.1V	4.10	27.4	25.0	3R3
HFBC1010A4R7MTG00	4.70	100kHz,0.1V	5.70	25.4	24.0	4R7
HFBC1010A5R6MTG00	5.60	100kHz,0.1V	7.20	23.6	21.2	5R6
HFBC1010A6R8MTG00	6.80	100kHz,0.1V	8.90	21.8	18.5	6R8
HFBC1010A8R2MTG00	8.20	100kHz,0.1V	12.40	18.3	17.1	8R2
HFBC1010A100MTG00	10.00	100kHz,0.1V	13.75	17.5	15.5	100
HFBC1010A150MTG00	15.00	100kHz,0.1V	19.30	15.5	13.8	150

NOTE: Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Saturation Current (Isat) will cause L0 to drop approximately 30%.(Internal control standards at 40% max)

3.Irms for a 40℃ temprature rise from 25℃ ambient.

4.Operating voltage: 0 – 55 V

HFBC1508 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC1508A2R0MPG00	2.00	100kHz,0.1V	2.21	52.0	40.0	2R0
HFBC1508A2R2MPG00	2.20	100kHz,0.1V	2.48	49.0	37.0	2R2
HFBC1508A3R0MPG00	3.00	100kHz,0.1V	3.00	41.0	34.5	3R0
HFBC1508A4R2MPG00	4.20	100kHz,0.1V	4.68	33.0	27.0	4R2
HFBC1508A4R7MPG00	4.70	100kHz,0.1V	5.16	32.0	26.5	4R7
HFBC1508A5R3MPG00	5.30	100kHz,0.1V	5.34	31.0	26.0	5R3
HFBC1508A6R2MPG00	6.20	100kHz,0.1V	6.50	31.0	23.0	6R2
HFBC1508A7R2MPG00	7.20	100kHz,0.1V	7.20	29.0	21.0	7R2
HFBC1508A8R2MPG00	8.20	100kHz,0.1V	7.92	25.0	19.0	8R2

HFBC1510 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ	Irms(A) Typ	Marking
HFBC1510A4R7MPG00	4.70	100kHz,0.1V	3.80	39.0	29.0	4R7
HFBC1510A5R6MPG00	5.60	100kHz,0.1V	4.20	37.0	28.0	5R6
HFBC1510A6R8MPG00	6.80	100kHz,0.1V	4.60	36.0	26.0	6R8
HFBC1510A8R2MPG00	8.20	100kHz,0.1V	7.20	30.0	24.0	8R2
HFBC1510A100MPG00	10.00	100kHz,0.1V	8.60	26.5	22.0	100
HFBC1510A150MPG00	15.00	100kHz,0.1V	11.50	23.0	18.0	150
HFBC1510A220MPG00	22.00	100kHz,0.1V	15.80	18.7	14.0	220
HFBC1510A330MPG00	33.00	100kHz,0.1V	20.00	16.7	12.0	330

NOTE: Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Saturation Current (Isat) will cause L0 to drop approximately 30%.(Internal control standards at 40% max)

3.Irms for a 40℃ temprature rise from 25℃ ambient.

4.Operating voltage: 0 – 55 V

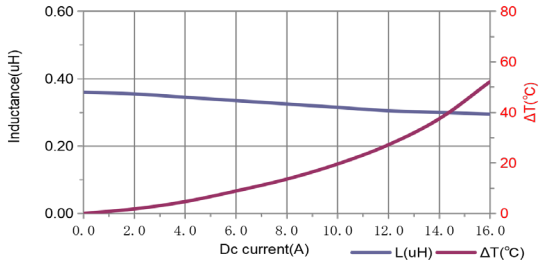
Product Characteristic Curve

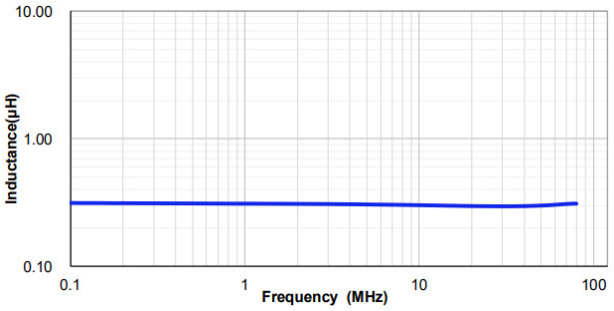
HFBC0402 series

Saturation Current vs Temperature Rise Current Curve

Inductance vs Frequency

HFBC0402AR36MPG





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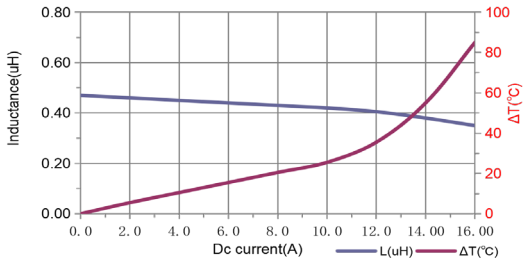

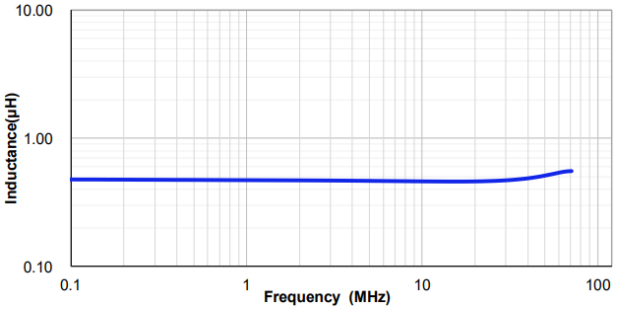

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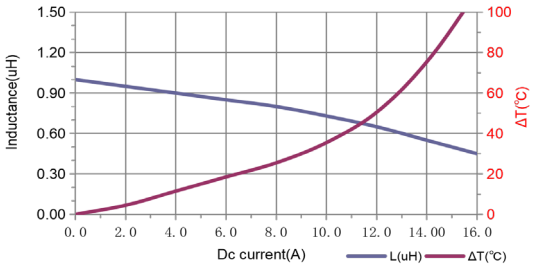

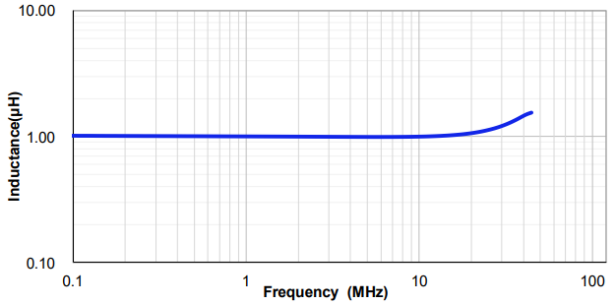

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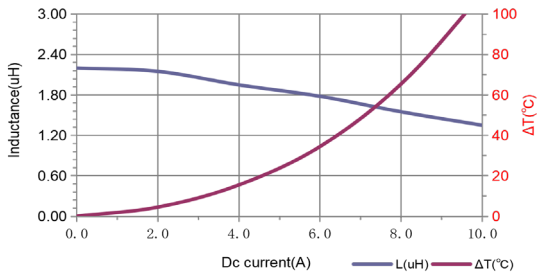
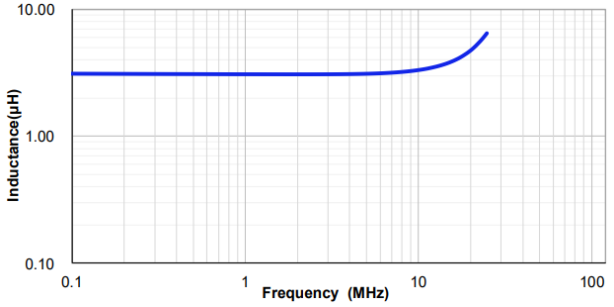




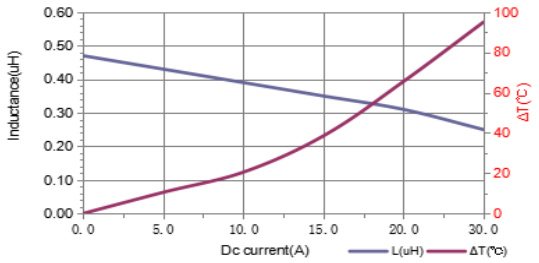
Product Characteristic Curve

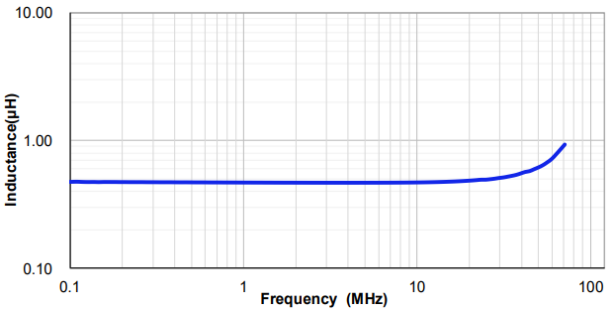
HFBC0403 series

Saturation Current vs Temperature Rise Current Curve

Inductance vs Frequency

HFBC0403AR47MPG





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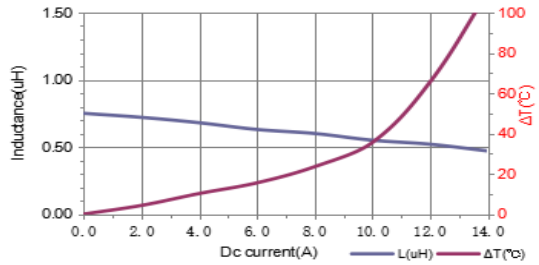

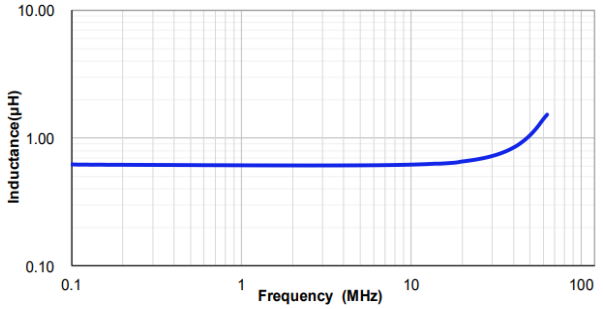

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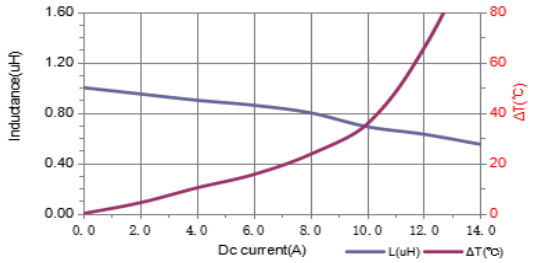

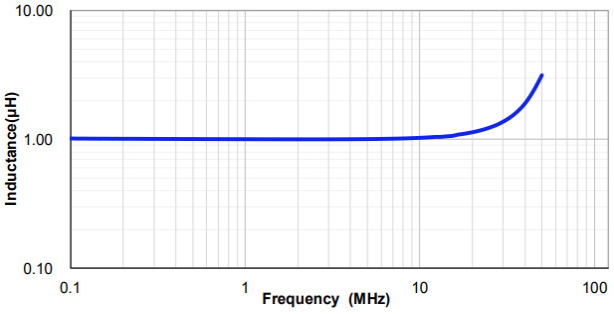

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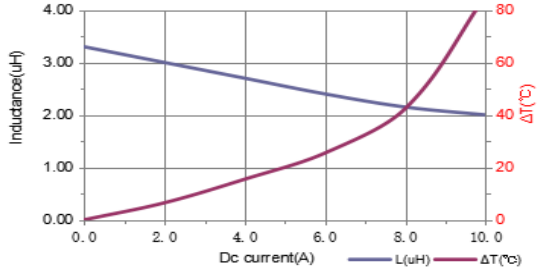
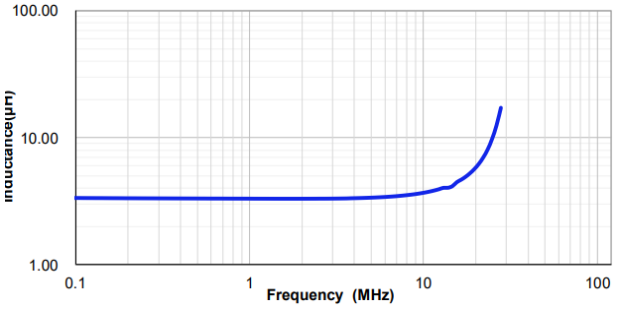




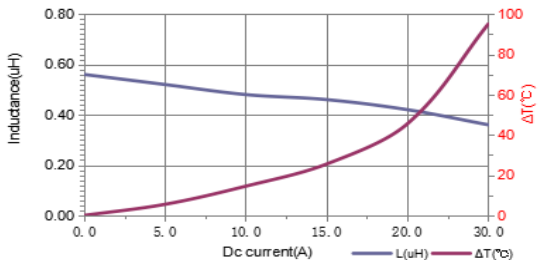
Product Characteristic Curve

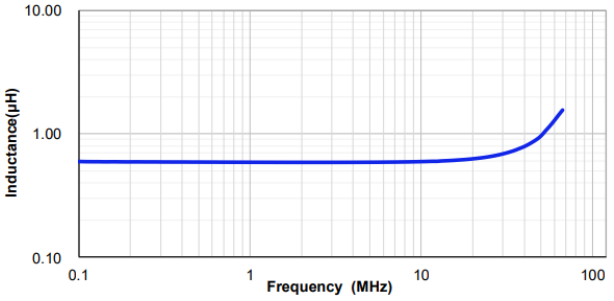
HFBC0503 series

Saturation Current vs Temperature Rise Current Curve

Inductance vs Frequency

HFBC0503AR56MPG





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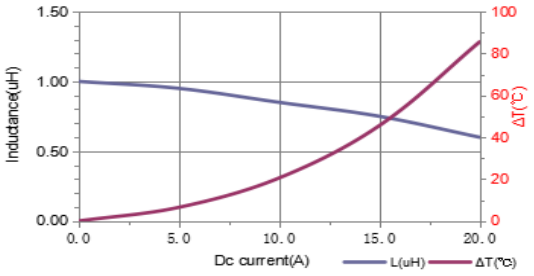

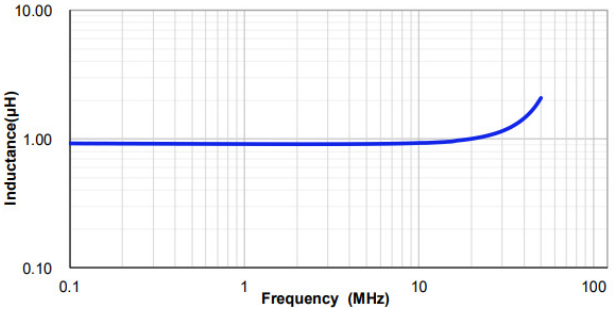

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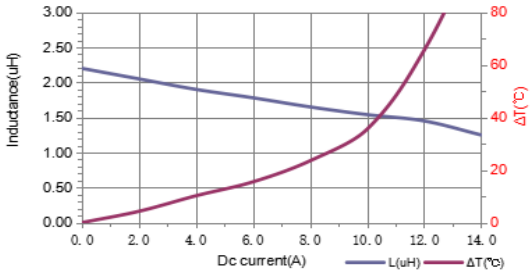

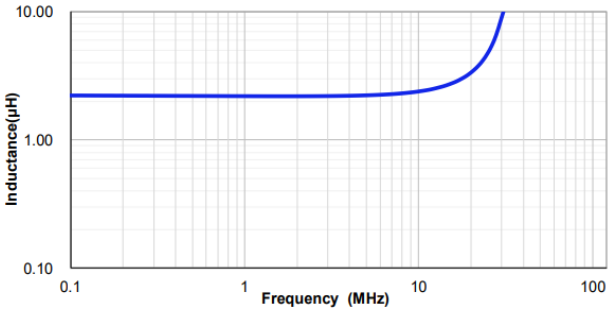

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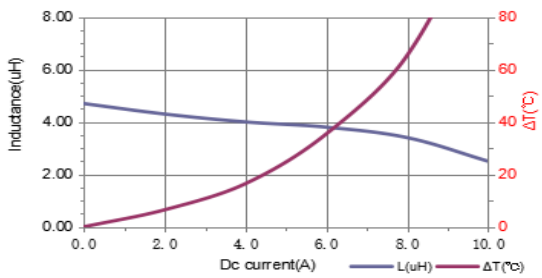
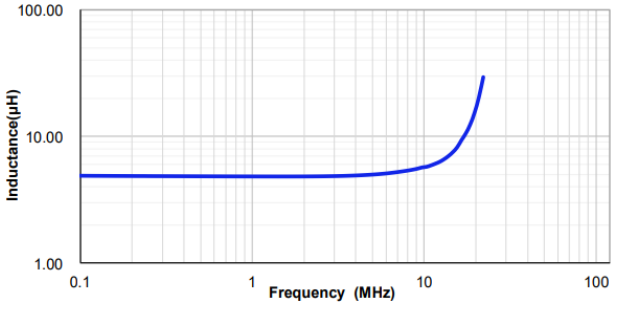




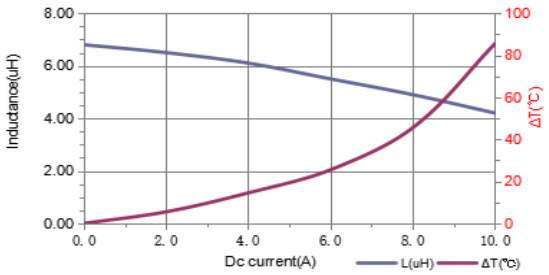
Product Characteristic Curve

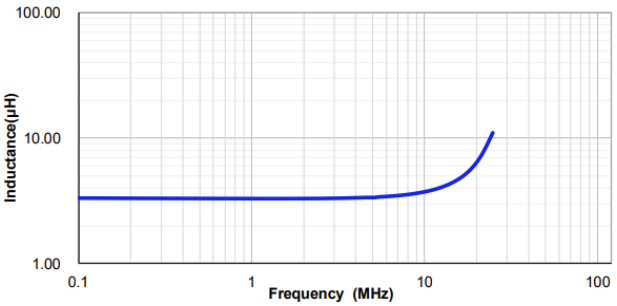
HFBC0505 series

Saturation Current vs Temperature Rise Current Curve

Inductance vs Frequency

HFBC0505A3R3MPG





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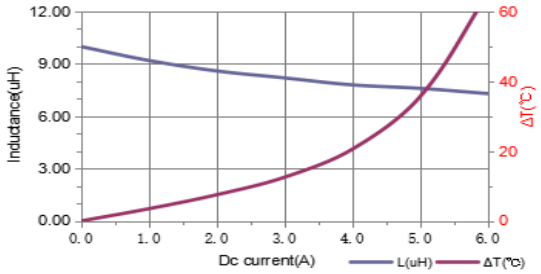
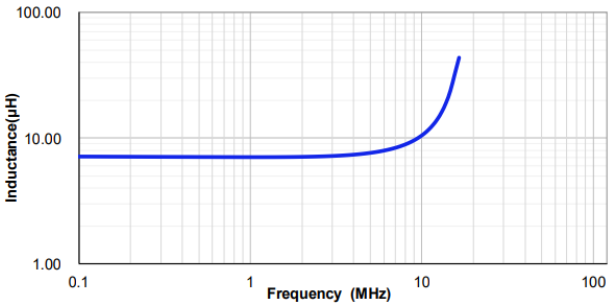




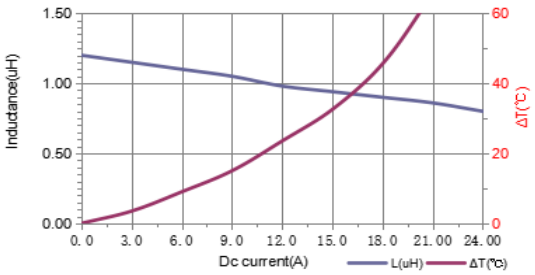
Product Characteristic Curve

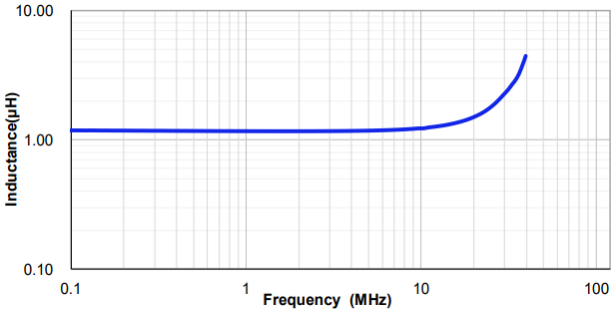
HFBC0603 series

Saturation Current vs Temperature Rise Current Curve

Inductance vs Frequency

HFBC0603A1R2MPG





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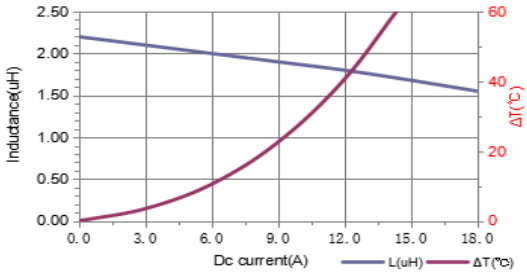

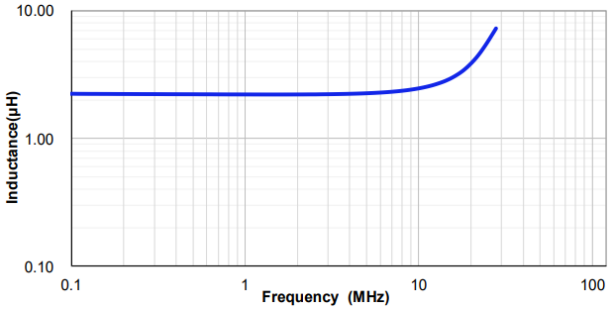

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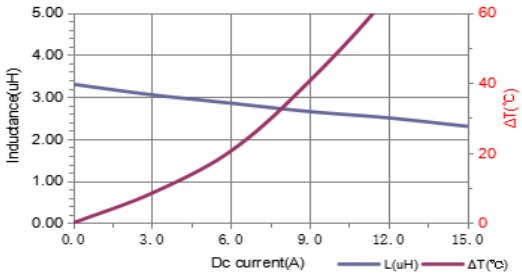

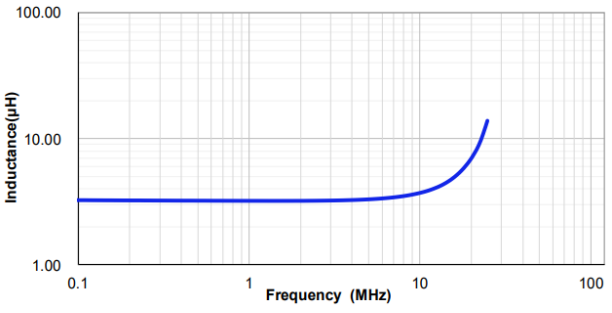

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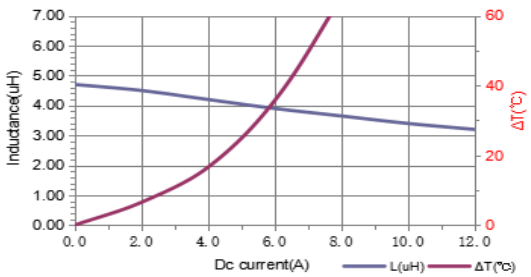
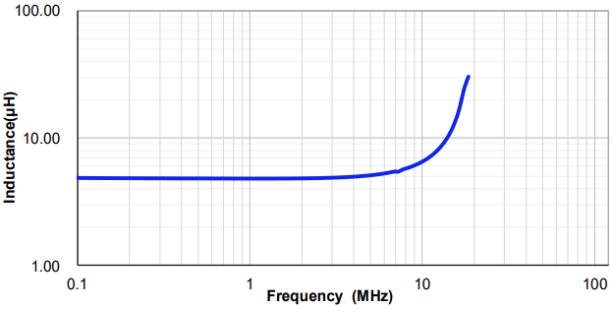




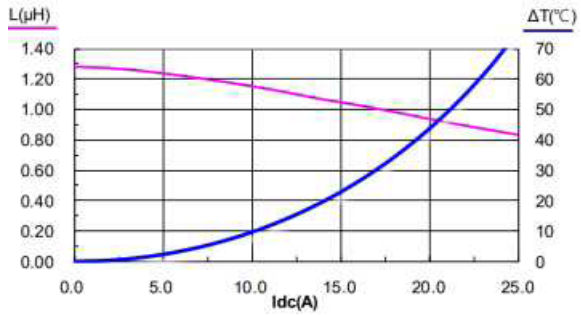
Product Characteristic Curve

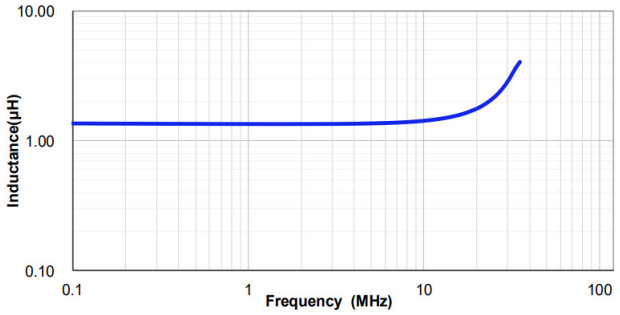
HFBC0606 series

Saturation Current vs Temperature Rise Current Curve

Inductance vs Frequency

HFBC0606A1R2MPG





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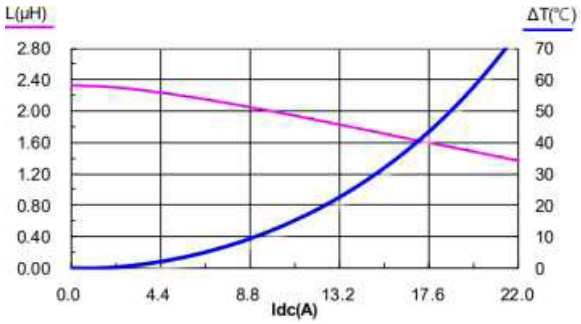

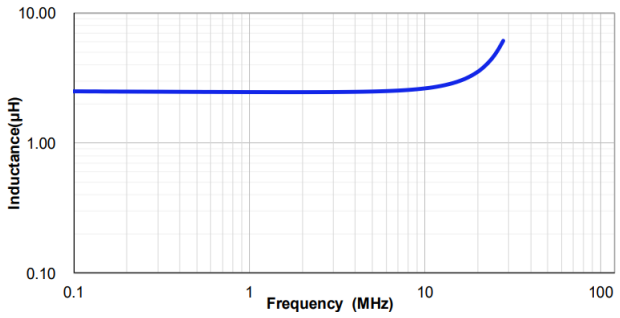

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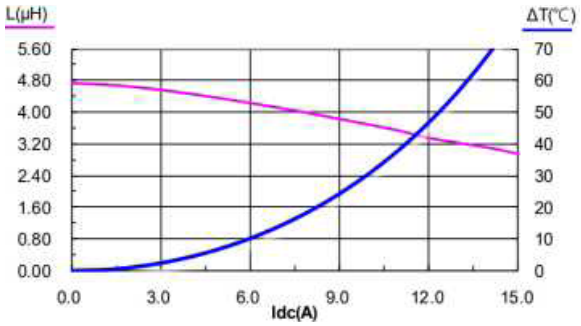

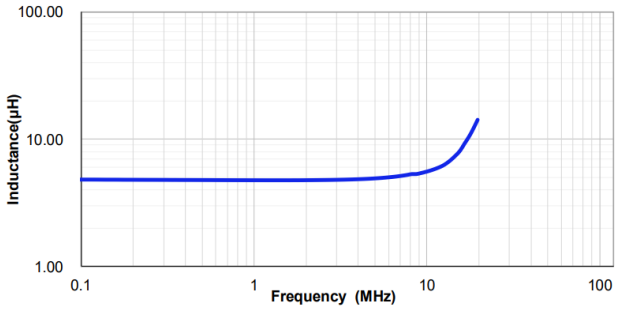

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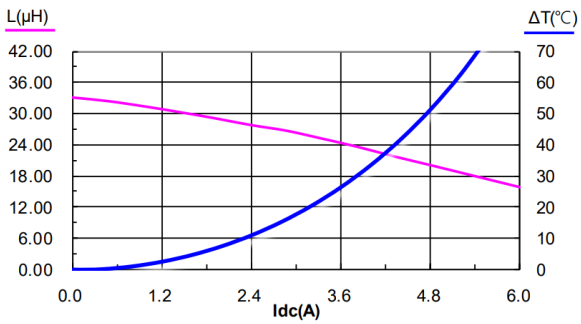
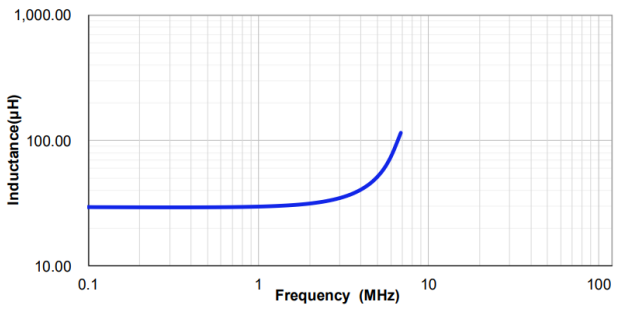




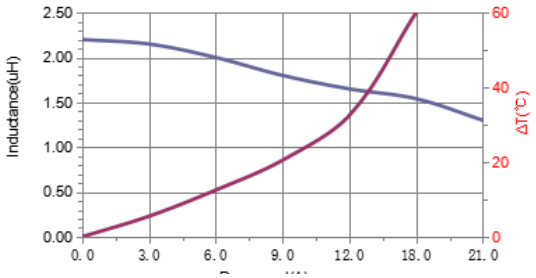
Product Characteristic Curve

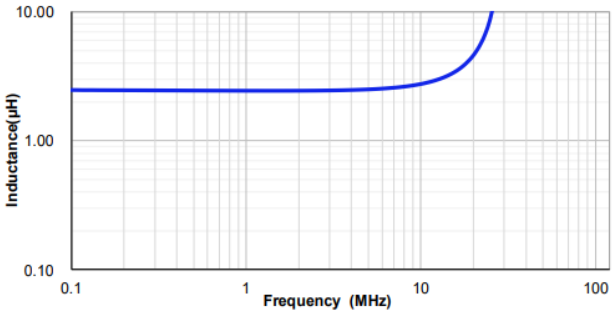
HFBC0703 series

Saturation Current vs Temperature Rise Current Curve

Inductance vs Frequency

HFBC0703A2R2MPG





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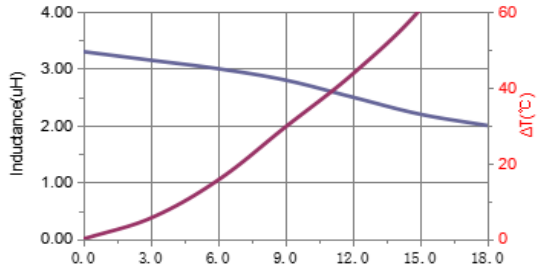

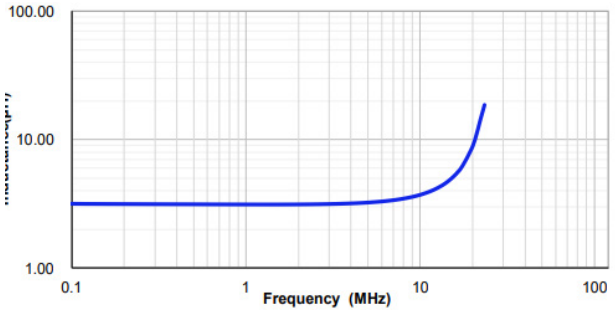

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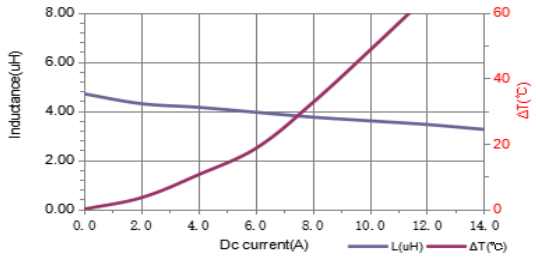
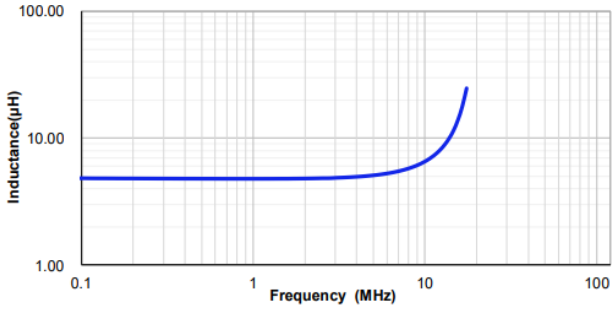




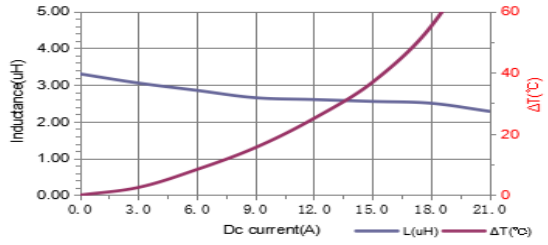
Product Characteristic Curve

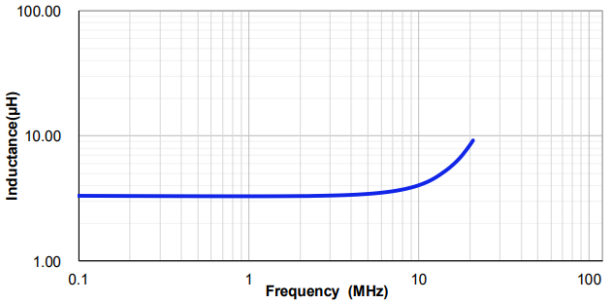
HFBC0707 series

Saturation Current vs Temperature Rise Current Curve

Inductance vs Frequency

HFBC0707A3R3MPG





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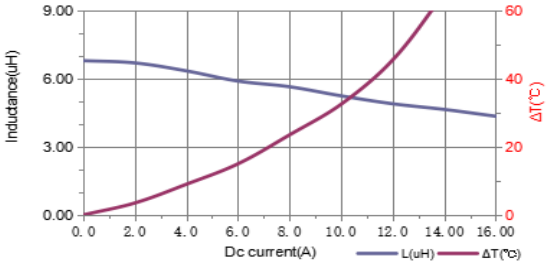
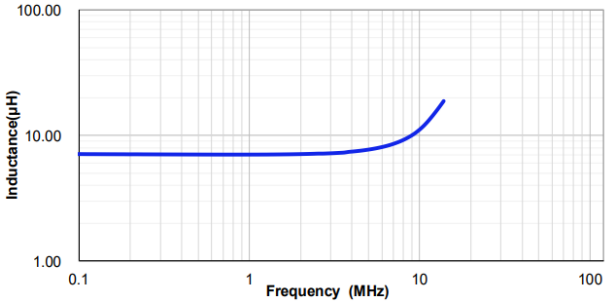




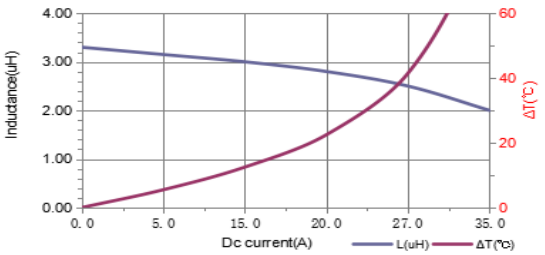
Product Characteristic Curve

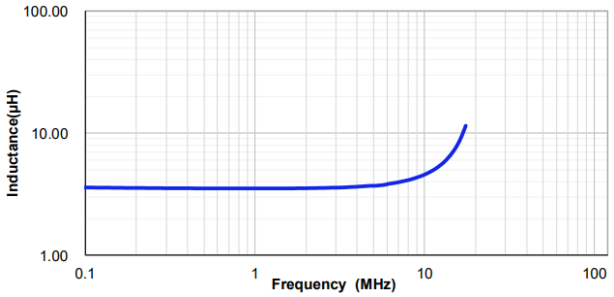
HFBC1010 series

Saturation Current vs Temperature Rise Current Curve

Inductance vs Frequency

HFBC1010A3R3MPG





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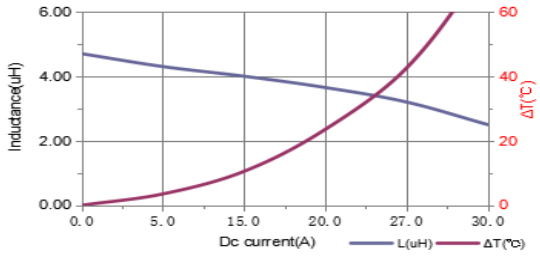

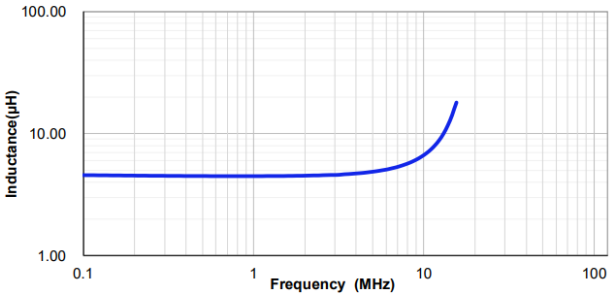

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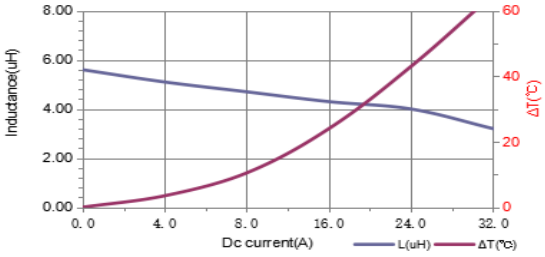
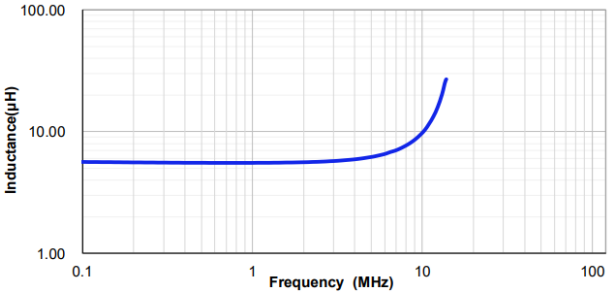




Packaging Specifications

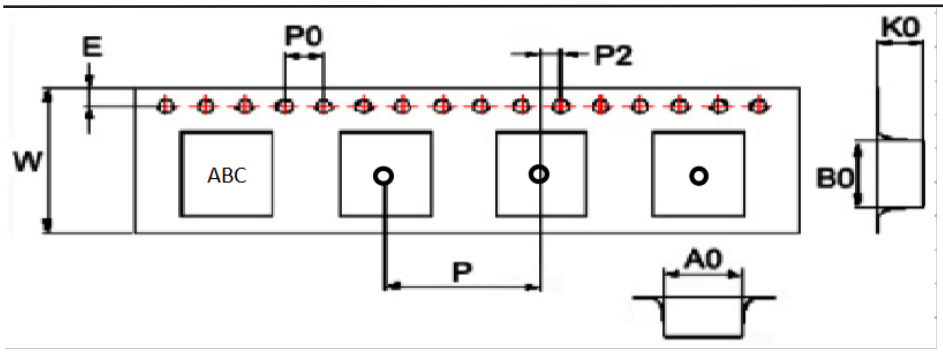


Fig.1

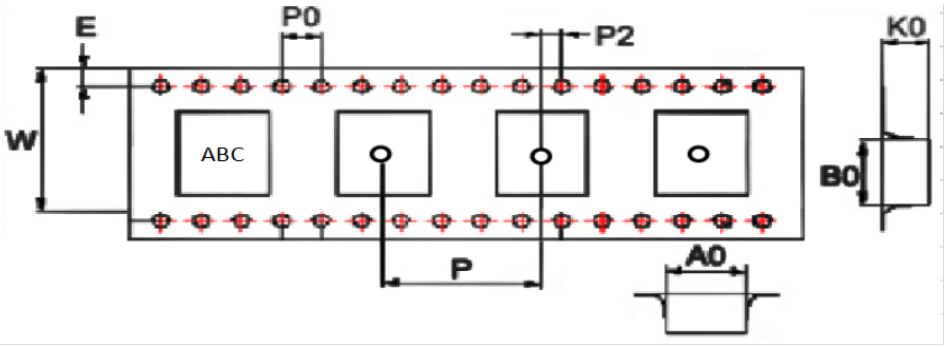


Fig.2

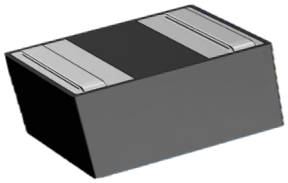
Dimensions in mm

TYPE	Shape	Tape Dimensions								Quantity PCS/ REEL
		W	P	A0	B0	K0	E	P0	P2	
0402	Fig.1	12	8	4.4	4.4	2.3	1.75	4	2	3000
0403	Fig.1	12	8	4.4	4.4	3.3	1.75	4	2	2000
0502	Fig.1	12	8	6	5.7	2.3	1.75	4	2	3000
0503	Fig.1	16	8	6.0	5.7	3.3	1.75	4	2	2000
0505	Fig.1	16	8	6.0	5.7	5.3	1.75	4	2	1500
0603	Fig.1	16	12	7	6.8	3.3	1.75	4	2	1000
0605	Fig.1	16	12	7	6.8	5.3	1.75	4	2	800
0606	Fig.1	16	12	7	6.8	6.3	1.75	4	2	750
0703	Fig.1	16	12	8.2	8	3.3	1.75	4	2	1500
0707	Fig.1	16	12	8.2	8	7.3	1.75	4	2	700
1006	Fig.1	24	16	12.4	11.5	6.3	1.75	4	2	500
1010	Fig.1	24	16	12.6	11.7	10.3	1.75	4	2	300
1508	Fig.2	32	24	17	16	8.5	1.75	4	2	200
1510	Fig.2	32	24	17	16	10.5	1.75	4	2	150

ISO9001 / ISO14001 / IATF16949

Automotive
AEC-Q200

HFIC SERIES



FEATURES

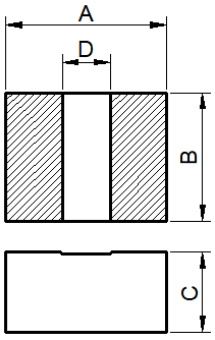
- High performance (Isat) realized by metal dust core
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard

ORDERING CODE

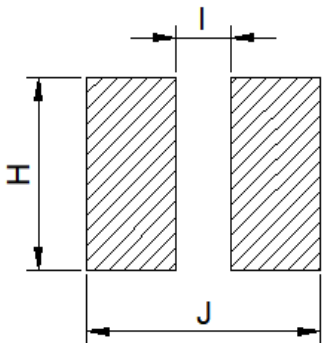
HFIC	322525	M	100	M	P	G	00

Type	Dimensions	Material code	Inductance	Tolerance	Surface	Colour	Tail code
	322525	M：powder	R47：0.47μH	M：±20%	P：plane	G：gray	
			4R7：4.70μH	T：±30%		B：black	

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D
HFIC322525	3.2±0.2	2.5±0.2	2.5±0.2	0.9typ

H	I	J
2.8	0.8	3.7

HFIC322525 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ(Max)	Irms(A) Typ(Max)	Tolerance (±%)
HFIC322525M1R0MPG00	1.00	1MHz,1V	14.2(16.9)	8.7(7.3)	9.5(8.0)	20
HFIC322525M1R5MPG00	1.50	1MHz,1V	23.7(28.5)	6.2(5.2)	7.6(6.1)	20
HFIC322525M2R2MPG00	2.20	1MHz,1V	27.2(32.6)	4.4(3.7)	6.6(5.7)	20
HFIC322525M3R3MPG00	3.30	1MHz,1V	43.8(52.9)	3.9(3.3)	5.2(4.5)	20
HFIC322525M4R7MPG00	4.70	1MHz,1V	63.6(76.3)	3.5(2.9)	4.4(3.7)	20
HFIC322525M6R8MPG00	6.80	1MHz,1V	86.5(100.7)	3.0(2.5)	3.8(3.2)	20
HFIC322525M100MPG00	10.00	1MHz,1V	136.0(163.2)	2.5(2.1)	3.0(2.5)	20
HFIC322525M150MPG00	15.00	1MHz,1V	230.9(260.1)	2.1(1.8)	2.6(2.1)	20

NOTE: Tolerance M=±20% / T=±30%

1.All test data is referenced to 25℃ ambient.

2.Irms: DC current (A) that will cause an approximate ΔT of 40℃

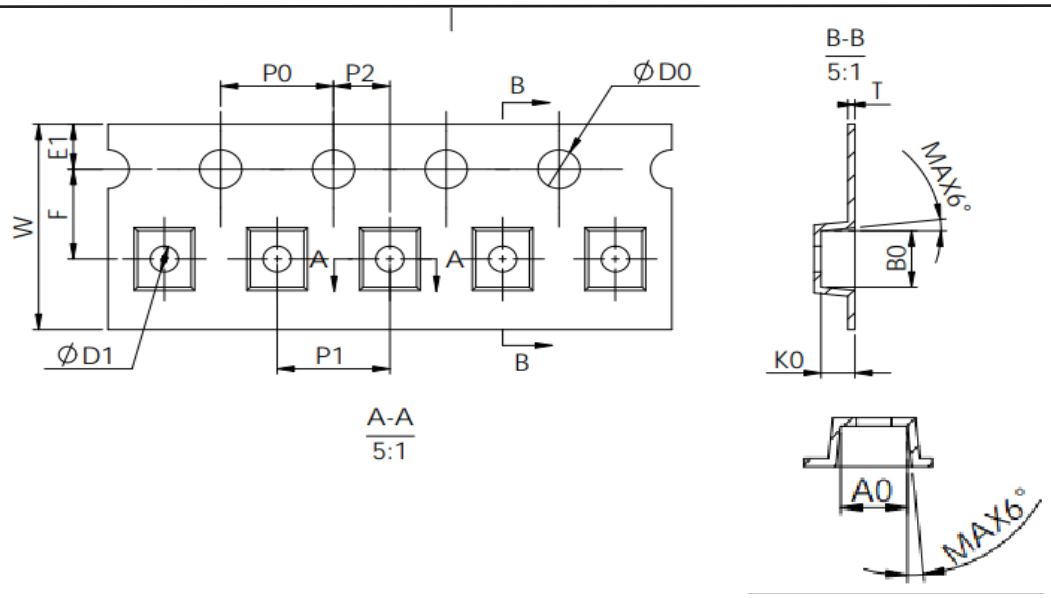
3.Isat : DC current (A) that will cause L0 to drop approximately 30%

4.Operating Temperature Range -55℃ to +180℃

5.The part temperature (ambient + temp rise) should not exceed 180℃ under the worst case operating conditions. Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provision all affect the part temperature. Part temperature should be verified in the end application.

6.The rated current as listed is either the saturation current or the heating current depending on which value is lower.

Packaging Specifications



Dimensions in mm

TYPE	Tape Dimensions							Quantity PCS/REEL
	W	P0	A0	B0	T	K0	F	
322525	12	4	2.9	3.5	0.28	2.70	3.5	1500

ISO9001 / ISO14001 / IATF16949

Automotive
AEC-Q200

HMGC SERIES

FEATURES



- RoHS Compliant
- Highly accurate dimensions
- Highly reliable in environments of sudden temperature change and humidity
- Shielded& power inductors

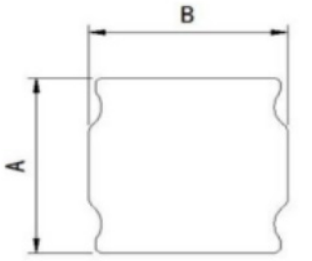
ORDERING CODE

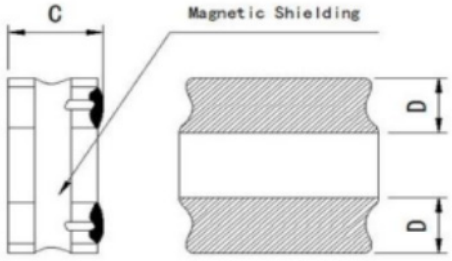
HMGC	3010	S4	100	M	00

Type	Dimensions	Outline	Inductance	Tolerance	Tail code
	3010	S1：ellipse	R47:0.47μH	M：±20%	
	3015	S2：square	4R7:4.7μH	T：±30%	
	4020	S3：octagon			
	5020	S4：dodecagon			
	6045				
	8040				

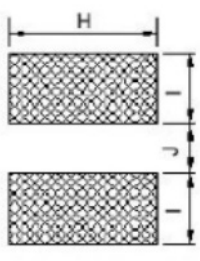
HMGC3010/3012

Shape and Dimensions





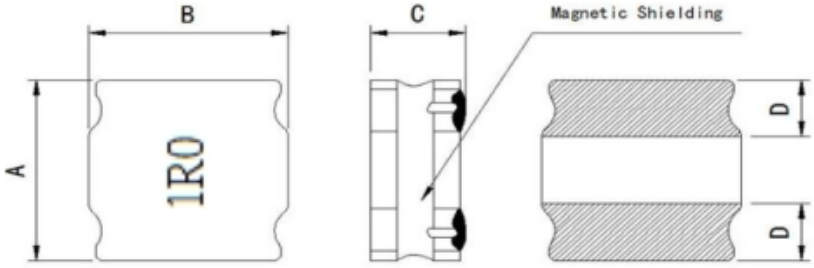
Recommended Pattern



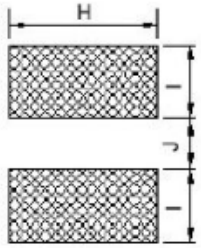
HMGC SERIES

HMGC3015

Shape and Dimensions

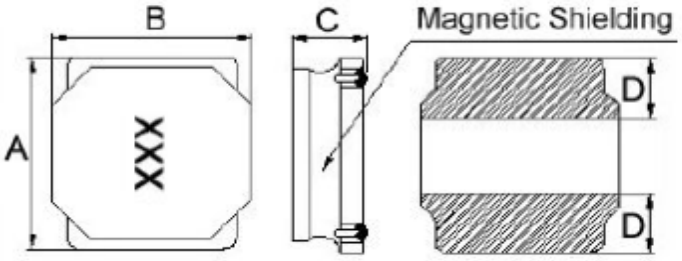


Recommended Pattern

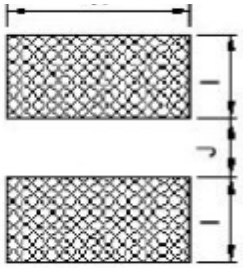


HMGC4012/4018/4026/6028

Shape and Dimensions



Recommended Pattern



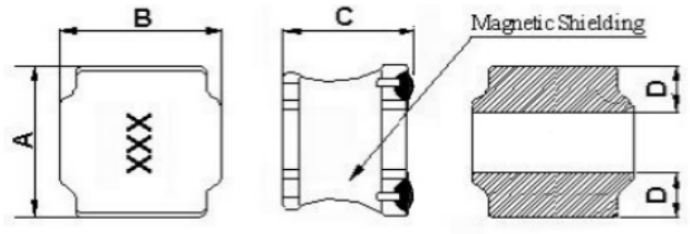
Dimensions in mm

TYPE	A	B	C	D	H	I	J
HMGC3010	3.0±0.2	3.0±0.2	$1.0^{+0.2}_{-0.3}$	0.75	2.5	1.0	1.0
HMGC3012	3.0±0.2	3.0±0.2	$1.2^{+0.2}_{-0.3}$	0.75	2.5	1.0	1.0
HMGC3015	3.0±0.2	3.0±0.2	$1.5^{+0.2}_{-0.3}$	0.9	2.5	1.0	1.0
HMGC4012	4.0±0.2	4.0±0.2	$1.2^{+0.2}_{-0.3}$	1.3	3.4	1.1	1.9
HMGC4018	4.0±0.2	4.0±0.2	$1.8^{+0.2}_{-0.3}$	1.3	3.7	1.2	1.6
HMGC4026	4.0±0.2	4.0±0.2	$2.6^{+0.2}_{-0.3}$	1.4	3.7	1.2	1.6
HMGC4030	4.0±0.2	4.0±0.2	3.0max	1.0	3.7	1.2	1.6

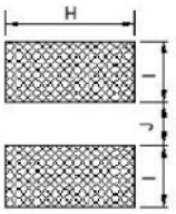
HMGC SERIES

HMGC6045-40

Shape and Dimensions

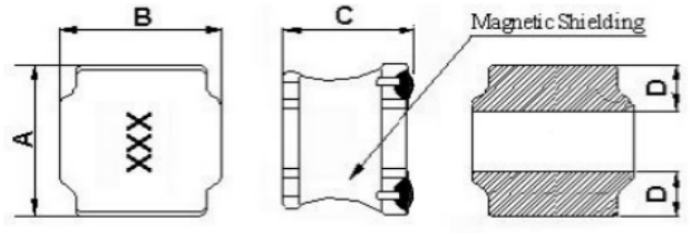


Recommended Pattern

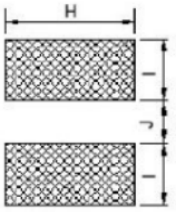


HMGC4030~80

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	H	I	J
HMGC5020	5.0±0.2	5.0±0.2	$2.0^{+0.2}_{-0.3}$	1.80	4.00	2.00	2.10
HMGC5040	5.0±0.2	5.0±0.2	$4.0^{+0.2}_{-0.3}$	1.60	4.00	1.80	2.10
HMGC6020	6.0±0.2	6.0±0.2	$2.0^{+0.2}_{-0.3}$	1.60	5.70	1.80	2.90
HMGC6028	6.0±0.2	6.0±0.2	$2.8^{+0.2}_{-0.3}$	1.80	5.70	2.00	2.90
HMGC6045	6.0±0.2	6.0±0.2	$4.5^{+0.2}_{-0.3}$	1.80	5.70	2.00	2.90
HMGC6045-40	6.0±0.2	6.0±0.2	$4.5^{+0.2}_{-0.3}$	1.80	5.70	2.00	2.90
HMGC8040	8.0±0.2	8.0±0.2	$4.0^{+0.2}_{-0.3}$	2.45	7.50	2.50	3.40

HMGC3010 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	No Marking
HMGC3010S41R0□00	1.0	100kHz,1V	85	2.20(1.40)	1.80(1.45)	30	
HMGC3010S41R5□00	1.5	100kHz,1V	104	1.75(1.27)	1.60(1.30)	30	
HMGC3010S42R2□00	2.2	100kHz,1V	143	1.60(1.15)	1.42(1.09)	20,30	
HMGC3010S43R3□00	3.3	100kHz,1V	189	1.20(0.97)	1.20(0.96)	20,30	
HMGC3010S44R7□00	4.7	100kHz,1V	293	1.10(0.75)	1.10(0.77)	20,30	
HMGC3010S46R8□00	6.8	100kHz,1V	397	0.75(0.65)	0.96(0.66)	20,30	
HMGC3010S4100□00	10.0	100kHz,1V	520	0.72(0.60)	0.70(0.58)	20,30	
HMGC3010S4150□00	15.0	100kHz,1V	793	0.58(0.42)	0.57(0.47)	20,30	
HMGC3010S4220□00	22.0	100kHz,1V	1176	0.48(0.36)	0.52(0.38)	20,30	
HMGC3010S4330□00	33.0	100kHz,1V	2015	0.42(0.29)	0.55(0.30)	20,30	
HMGC3010S4470□00	47.0	100kHz,1V	2535	0.36(0.22)	0.52(0.26)	20,30	

HMGC3012 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Max	Irms(A) Max	Tolerance (±%)	No Marking
HMGC3012S41R0□00	1.0	100kHz,1V	52.0	2.80(1.87)	2.70(2.20)	30	
HMGC3012S41R5□00	1.5	100kHz,1V	59.0	1.92(1.62)	2.20(2.01)	30	
HMGC3012S42R2□00	2.2	100kHz,1V	97.5	1.90(1.20)	1.70(1.55)	20,30	
HMGC3012S43R3□00	3.3	100kHz,1V	130.0	1.52(1.05)	1.40(1.36)	20,30	
HMGC3012S44R7□00	4.7	100kHz,1V	156.0	1.00(0.90)	1.30(1.24)	20,30	
HMGC3012S46R8□00	6.8	100kHz,1V	247.0	0.92(0.75)	1.10(0.98)	20,30	
HMGC3012S4100□00	10.0	100kHz,1V	344.5	0.88(0.60)	0.90(0.83)	20,30	
HMGC3012S4150□00	15.0	100kHz,1V	598.0	0.62(0.45)	0.77(0.71)	20,30	
HMGC3012S4220□00	22.0	100kHz,1V	838.5	0.52(0.42)	0.59(0.53)	20,30	
HMGC3012S4330□00	33.0	100kHz,1V	1138.0	0.46(0.36)	0.50(0.46)	20,30	
HMGC3012S4470□00	47.0	100kHz,1V	1885.0	0.35(0.27)	0.40(0.35)	20,30	
HMGC3012S4680□00	68.0	100kHz,1V	2171.0	0.29(0.24)	0.37(0.33)	20,30	

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

3.Isat for Inductance drop 30% from its value without current.

3.Irms for a 40℃ temprature rise from 25℃ ambient.

HMGC 3015 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
HMGC3015S41R0□00	1.0	100kHz,1V	39.0	2.85(2.20)	2.50(2.30)	30	1R0
HMGC3015S41R2□00	1.2	100kHz,1V	52.0	2.20(1.90)	2.30(1.95)	30	1R2
HMGC3015S41R5□00	1.5	100kHz,1V	65.0	1.82(1.62)	1.75(1.50)	30	1R5
HMGC3015S41R8□00	1.8	100kHz,1V	65.0	1.80(1.60)	1.50(1.20)	30	1R8
HMGC3015S42R2□00	2.2	100kHz,1V	78.0	1.78(1.56)	1.30(1.15)	20,30	2R2
HMGC3015S43R3□00	3.3	100kHz,1V	104.0	1.75(1.28)	1.28(1.10)	20,30	3R3
HMGC3015S44R7□00	4.7	100kHz,1V	162.5	1.35(1.20)	1.20(0.95)	20,30	4R7
HMGC3015S45R1□00	5.1	100kHz,1V	172.9	1.30(1.10)	1.15(0.90)	20,30	5R1
HMGC3015S46R8□00	6.8	100kHz,1V	260.0	1.10(0.85)	1.10(0.85)	20,30	6R8
HMGC3015S4100□00	10.0	100kHz,1V	325.0	0.92(0.75)	0.90(0.77)	20,30	100
HMGC3015S4120□00	12.0	100kHz,1V	416.0	0.90(0.70)	0.85(0.65)	20,30	120
HMGC3015S4150□00	15.0	100kHz,1V	494.0	0.79(0.66)	0.78(0.65)	20,30	150
HMGC3015S4180□00	18.0	100kHz,1V	559.0	0.72(0.56)	0.72(0.58)	20,30	180
HMGC3015S4220□00	22.0	100kHz,1V	598.0	0.60(0.48)	0.69(0.53)	20,30	220
HMGC3015S4330□00	33.0	100kHz,1V	1066.0	0.52(0.46)	0.51(0.45)	20,30	330
HMGC3015S4390□00	39.0	100kHz,1V	1294.0	0.50(0.40)	0.45(0.40)	20,30	390
HMGC3015S4470□00	47.0	100kHz,1V	1625.0	0.45(0.33)	0.43(0.35)	20,30	470
HMGC3015S4560□00	56.0	100kHz,1V	1664.0	0.42(0.30)	0.40(0.32)	20,30	560
HMGC3015S4680□00	68.0	100kHz,1V	3510.0	0.37(0.25)	0.31(0.23)	20,30	680
HMGC3015S4101□00	100.0	100kHz,1V	4043.0	0.28(0.23)	0.25(0.21)	20,30	101

HMGC 4012 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Max	Irms(A) Max	Tolerance (±%)	Marking
HMGC4012S31R0□00	1.0	100kHz,1V	65	3.20(2.61)	2.50(1.65)	20,30	1R0
HMGC4012S32R2□00	2.2	100kHz,1V	104	2.30(1.76)	1.90(1.32)	20,30	2R2
HMGC4012S33R3□00	3.3	100kHz,1V	143	2.10(1.72)	1.60(1.12)	20,30	3R3
HMGC4012S34R7□00	4.7	100kHz,1V	185	1.80(1.15)	1.50(1.05)	20,30	4R7
HMGC4012S35R6□00	5.6	100kHz,1V	200	1.60(1.00)	1.30(1.00)	20,30	5R6
HMGC4012S36R8□00	6.8	100kHz,1V	257	1.40(0.85)	1.20(0.84)	20,30	6R8
HMGC4012S3100□00	10.0	100kHz,1V	345	1.10(0.80)	1.00(0.77)	20,30	100
HMGC4012S3150□00	15.0	100kHz,1V	442	0.80(0.56)	0.85(0.64)	20,30	150
HMGC4012S3220□00	22.0	100kHz,1V	763	0.70(0.46)	0.75(0.49)	20,30	220

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

3.Isat for Inductance drop 30% from its value without current.

3.Irms for a 40℃ temprature rise from 25℃ ambient.

HMGC4018 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
HMGC4018S31R0□00	1	100kHz,1V	38.4	4.10(3.69)	2.80(2.52)	30	1R0
HMGC4018S31R5□00	1.5	100kHz,1V	48.0	3.30(2.97)	2.60(2.34)	30	1R5
HMGC4018S31R8□00	1.8	100kHz,1V	66.0	2.80(2.50)	2.50(2.20)	30	1R8
HMGC4018S32R2□00	2.2	100kHz,1V	72.0	2.80(2.52)	2.50(2.25)	20,30	2R2
HMGC4018S32R3□00	2.3	100kHz,1V	72.0	2.80(2.52)	2.50(2.25)	20,30	2R3
HMGC4018S33R3□00	3.3	100kHz,1V	84.0	2.20(1.98)	2.10(1.89)	20,30	3R3
HMGC4018S33R6□00	3.6	100kHz,1V	90.0	2.10(1.89)	1.90(1.71)	20,30	3R6
HMGC4018S33R9□00	3.9	100kHz,1V	90.0	2.10(1.89)	1.90(1.71)	20,30	3R9
HMGC4018S34R7□00	4.7	100kHz,1V	108.0	2.00(1.80)	1.70(1.53)	20,30	4R7
HMGC4018S36R8□00	6.8	100kHz,1V	143.0	1.60(1.44)	1.50(1.35)	20,30	6R8
HMGC4018S3100□00	10.0	100kHz,1V	228.0	1.40(1.26)	1.20(1.08)	20,30	100
HMGC4018S3150□00	15.0	100kHz,1V	300.0	1.00(0.90)	1.00(0.90)	20,30	150
HMGC4018S3220□00	22.0	100kHz,1V	468.0	0.90(0.81)	0.85(0.76)	20,30	220
HMGC4018S3330□00	33.0	100kHz,1V	636.0	0.80(0.72)	0.70(0.63)	20,30	330
HMGC4018S3470□00	47.0	100kHz,1V	864.0	0.70(0.63)	0.56(0.50)	20,30	470

HMGC4026 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
HMGC4026S31R2□00	1.2	100kHz,1V	36.0	4.30(3.52)	3.30(2.97)	30	1R2
HMGC4026S33R3□00	3.3	100kHz,1V	104.0	3.50(3.00)	2.50(2.25)	20,30	3R3
HMGC4026S34R7□00	4.7	100kHz,1V	120.0	3.20(2.80)	2.20(1.62)	20,30	4R7
HMGC4026S3220□00	22.0	100kHz,1V	440.4	1.53(0.82)	1.00(0.90)	20,30	220

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

3.Isat for Inductance drop 30% from its value without current.

3.Irms for a 40℃ temprature rise from 25℃ ambient.

HMGC4030 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
HMGC4030S41R0□00	1.0	100kHz,1V	23.4	6.20(5.26)	4.90(4.15)	30	1R0
HMGC4030S41R5□00	1.5	100kHz,1V	33.8	6.00(4.85)	3.80(3.40)	30	1R5
HMGC4030S41R8□00	1.8	100kHz,1V	43.0	5.20(4.50)	3.50(3.20)	30	1R8
HMGC4030S42R2□00	2.2	100kHz,1V	45.0	4.50(3.80)	3.30(2.90)	30	2R2
HMGC4030S43R3□00	3.3	100kHz,1V	52.0	4.00(3.30)	2.80(2.40)	20,30	3R3
HMGC4030S44R7□00	4.7	100kHz,1V	80.0	3.20(2.80)	2.50(2.00)	20,30	4R7
HMGC4030S45R6□00	5.6	100kHz,1V	85.0	2.90(2.60)	2.30(1.95)	20,30	5R6
HMGC4030S46R8□00	6.8	100kHz,1V	117.0	2.80(2.10)	1.90(1.60)	20,30	6R8
HMGC4030S4100□00	10.0	100kHz,1V	169.0	2.10(1.65)	1.80(1.50)	20,30	100
HMGC4030S4150□00	15.0	100kHz,1V	247.0	1.90(1.40)	1.40(1.10)	20,30	150
HMGC4030S4220□00	22.0	100kHz,1V	290.0	1.60(1.30)	1.20(1.00)	20,30	220
HMGC4030S4330□00	33.0	100kHz,1V	420.0	1.20(1.10)	0.98(0.84)	20,30	330
HMGC4030S4470□00	47.0	100kHz,1V	580.0	1.00(0.90)	0.90(0.70)	20,30	470
HMGC4030S4680□00	68.0	100kHz,1V	910.0	0.83(0.72)	0.60(0.52)	20,30	680
HMGC4030S4101□00	100.0	100kHz,1V	1690.0	0.70(0.56)	0.50(0.45)	20,30	101
HMGC4030S4121□00	120.0	100kHz,1V	1755.0	0.62(0.55)	0.47(0.42)	20,30	121
HMGC4030S4151□00	150.0	100kHz,1V	3000.0	0.56(0.35)	0.40(0.30)	20,30	151
HMGC4030S4221□00	220.0	100kHz,1V	3250.0	0.45(0.34)	0.38(0.30)	20,30	221

HMGC5020 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
HMGC5020S41R0□00	1.0	100kHz,1V	25.2	6.50(4.80)	4.50(3.60)	30	1R0
HMGC5020S41R2□00	1.2	100kHz,1V	25.2	6.30(4.50)	4.20(3.42)	30	1R2
HMGC5020S41R5□00	1.5	100kHz,1V	31.2	5.90(4.10)	3.80(3.15)	20,30	1R5
HMGC5020S42R2□00	2.2	100kHz,1V	42.0	5.00(3.30)	3.50(2.88)	20,30	2R2
HMGC5020S43R3□00	3.3	100kHz,1V	57.6	3.20(2.70)	3.00(2.52)	20,30	3R3
HMGC5020S43R6□00	3.6	100kHz,1V	65.0	3.10(2.60)	2.80(2.30)	20,30	3R6
HMGC5020S44R7□00	4.7	100kHz,1V	72.0	2.85(2.25)	2.50(1.98)	20,30	4R7
HMGC5020S45R6□00	5.6	100kHz,1V	98.4	2.60(2.10)	2.20(1.80)	20,30	5R6
HMGC5020S46R8□00	6.8	100kHz,1V	108.0	2.50(2.00)	2.00(1.62)	20,30	6R8
HMGC5020S4100□00	10.0	100kHz,1V	144.0	2.35(1.65)	1.75(1.44)	20,30	100
HMGC5020S4150□00	15.0	100kHz,1V	228.0	1.76(1.17)	1.50(1.08)	20,30	150
HMGC5020S4220□00	22.0	100kHz,1V	312.0	1.15(0.90)	1.10(0.90)	20,30	220
HMGC5020S4330□00	33.0	100kHz,1V	552.0	1.10(0.82)	0.95(0.67)	20,30	330
HMGC5020S4470□00	47.0	100kHz,1V	696.0	0.92(0.78)	0.85(0.58)	20,30	470

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

3.Isat for Inductance drop 30% from its value without current.

3.Irms for a 40℃ temprature rise from 25℃ ambient.

HMGC5040 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
HMGC5040S41R0□00	1.0	100kHz,1V	18.2	8.20(6.75)	5.20(4.90)	30	1R0
HMGC5040S41R2□00	1.2	100kHz,1V	19.5	7.40(6.66)	4.50(4.05)	30	1R2
HMGC5040S41R5□00	1.5	100kHz,1V	20.8	7.10(6.39)	4.80(3.96)	30	1R5
HMGC5040S42R2□00	2.2	100kHz,1V	27.3	5.70(5.13)	4.30(3.33)	20,30	2R2
HMGC5040S43R3□00	3.3	100kHz,1V	33.8	4.80(4.32)	3.92(3.15)	20,30	3R3
HMGC5040S44R7□00	4.7	100kHz,1V	41.6	4.22(3.78)	3.35(2.88)	20,30	4R7
HMGC5040S46R8□00	6.8	100kHz,1V	65.0	3.50(2.97)	2.80(2.16)	20,30	6R8
HMGC5040S4100□00	10.0	100kHz,1V	78.0	2.82(2.52)	2.45(1.98)	20,30	100
HMGC5040S4150□00	15.0	100kHz,1V	117.0	2.30(2.07)	2.00(1.62)	20,30	150
HMGC5040S4220□00	22.0	100kHz,1V	175.5	1.95(1.62)	1.63(1.26)	20,30	220
HMGC5040S4270□00	27.0	100kHz,1V	234.0	1.60(1.44)	1.25(1.08)	20,30	270
HMGC5040S4330□00	33.0	100kHz,1V	247.0	1.55(1.35)	1.10(0.99)	20,30	330
HMGC5040S4470□00	47.0	100kHz,1V	326.0	1.28(1.08)	1.05(0.81)	20,30	470
HMGC5040S4101□00	100.0	100kHz,1V	780.0	0.92(0.75)	0.83(0.70)	20,30	101

HMGC6020 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
HMGC6020S41R0□00	1.0	100kHz,1V	26.0	6.20(5.58)	4.40(3.69)	30	1R0
HMGC6020S41R5□00	1.5	100kHz,1V	33.8	5.80(4.50)	4.00(3.24)	30	1R5
HMGC6020S42R2□00	2.2	100kHz,1V	44.2	5.60(4.32)	3.88(3.15)	20,30	2R2
HMGC6020S43R3□00	3.3	100kHz,1V	52.0	4.10(3.20)	3.30(2.43)	20,30	3R3
HMGC6020S44R7□00	4.7	100kHz,1V	75.4	3.89(3.00)	2.55(1.98)	20,30	4R7
HMGC6020S46R8□00	6.8	100kHz,1V	110.5	3.52(2.20)	2.35(1.62)	20,30	6R8
HMGC6020S4100□00	10.0	100kHz,1V	162.5	2.55(1.80)	1.83(1.44)	20,30	100
HMGC6020S4150□00	15.0	100kHz,1V	247.0	2.30(1.25)	1.52(1.17)	20,30	150
HMGC6020S4220□00	22.0	100kHz,1V	270.0	1.51(0.99)	1.30(0.99)	20,30	220

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

3.Isat for Inductance drop 30% from its value without current.

3.Irms for a 40℃ temprature rise from 25℃ ambient.

HMGC6028 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
HMGC6028S31R0□00	1.0	100kHz,1V	16.9	7.60(6.84)	5.86(4.68)	30	1R0
HMGC6028S31R5□00	1.5	100kHz,1V	20.8	6.80(5.67)	5.15(4.32)	30	1R5
HMGC6028S32R2□00	2.2	100kHz,1V	26.0	5.40(4.86)	4.23(3.60)	20,30	2R2
HMGC6028S32R7□00	2.7	100kHz,1V	33.8	4.90(4.41)	4.10(3.33)	20,30	2R7
HMGC6028S33R3□00	3.3	100kHz,1V	36.4	4.30(3.87)	3.90(3.15)	20,30	3R3
HMGC6028S34R7□00	4.7	100kHz,1V	49.4	3.70(3.33)	3.45(2.88)	20,30	4R7
HMGC6028S36R0□00	6.0	100kHz,1V	58.5	3.50(2.97)	2.80(2.52)	20,30	6R0
HMGC6028S36R8□00	6.8	100kHz,1V	65.0	3.10(2.79)	2.70(2.43)	20,30	6R8
HMGC6028S3100□00	10.0	100kHz,1V	84.5	2.50(2.25)	2.30(2.07)	20,30	100
HMGC6028S3150□00	15.0	100kHz,1V	123.5	2.00(1.80)	1.80(1.62)	20,30	150
HMGC6028S3220□00	22.0	100kHz,1V	175.5	1.60(1.44)	1.50(1.35)	20,30	220
HMGC6028S3330□00	33.0	100kHz,1V	286.0	1.45(1.17)	1.40(1.26)	20,30	330
HMGC6028S3470□00	47.0	100kHz,1V	416.0	1.10(0.99)	1.00(0.90)	20,30	470
HMGC6028S3680□00	68.0	100kHz,1V	546.0	0.98(0.88)	0.90(0.81)	20,30	680
HMGC6028S3101□00	100.0	100kHz,1V	720.0	0.75(0.60)	0.80(0.72)	20,30	101

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

3.Isat for Inductance drop 30% from its value without current.

3.Irms for a 40℃ temprature rise from 25℃ ambient.

HMGC6045 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
HMGC6045S41R0□00	1.0	100kHz,1V	15.6	12.50(10.98)	6.50(5.85)	30	1R0
HMGC6045S41R5□00	1.5	100kHz,1V	19.5	11.40(9.36)	5.90(5.31)	30	1R5
HMGC6045S41R8□00	1.8	100kHz,1V	22.1	9.80(8.64)	5.65(5.04)	30	1R8
HMGC6045S42R2□00	2.2	100kHz,1V	23.92	9.00(7.92)	5.15(4.59)	20,30	2R2
HMGC6045S42R3□00	2.3	100kHz,1V	24.7	8.80(7.92)	5.00(4.50)	20,30	2R3
HMGC6045S43R0□00	3.0	100kHz,1V	28.6	7.85(7.02)	4.60(3.96)	20,30	3R0
HMGC6045S43R3□00	3.3	100kHz,1V	31.2	7.50(6.75)	4.32(3.87)	20,30	3R3
HMGC6045S43R6□00	3.6	100kHz,1V	31.2	7.50(6.75)	4.32(3.87)	20,30	3R6
HMGC6045S43R9□00	3.9	100kHz,1V	33.8	7.00(6.30)	4.00(3.60)	20,30	3R9
HMGC6045S44R5□00	4.5	100kHz,1V	40.3	6.70(6.03)	3.90(3.51)	20,30	4R5
HMGC6045S44R7□00	4.7	100kHz,1V	40.3	6.70(6.03)	3.90(3.51)	20,30	4R7
HMGC6045S45R1□00	5.1	100kHz,1V	42.9	6.00(5.40)	3.70(3.15)	20,30	5R1
HMGC6045S45R6□00	5.6	100kHz,1V	52.0	5.50(4.95)	3.55(2.97)	20,30	5R6
HMGC6045S46R3□00	6.3	100kHz,1V	52.0	5.45(4.95)	3.30(2.97)	20,30	6R3
HMGC6045S46R8□00	6.8	100kHz,1V	55.9	5.35(4.77)	3.25(2.88)	20,30	6R8
HMGC6045S4100□00	10.0	100kHz,1V	74.1	4.50(4.05)	2.70(2.43)	20,30	100
HMGC6045S4150□00	15.0	100kHz,1V	104.0	3.45(3.06)	2.30(1.98)	20,30	150
HMGC6045S4180□00	18.0	100kHz,1V	130.0	3.10(2.79)	2.00(1.80)	20,30	180
HMGC6045S4220□00	22.0	100kHz,1V	162.5	3.00(2.70)	1.90(1.71)	20,30	220
HMGC6045S4270□00	27.0	100kHz,1V	208.0	2.50(2.25)	1.50(1.17)	20,30	270
HMGC6045S4330□00	33.0	100kHz,1V	214.5	2.35(2.07)	1.45(1.26)	20,30	330
HMGC6045S4470□00	47.0	100kHz,1V	318.5	1.96(1.71)	1.27(1.08)	20,30	470
HMGC6045S4560□00	56.0	100kHz,1V	403.0	1.72(1.50)	1.18(0.99)	20,30	560
HMGC6045S4680□00	68.0	100kHz,1V	429.0	1.68(1.44)	1.10(0.90)	20,30	680
HMGC6045S4101□00	100.0	100kHz,1V	600.0	1.35(1.17)	0.90(0.72)	20,30	101
HMGC6045S4221□00	220.0	100kHz,1V	1560.0	0.90(0.73)	0.68(0.55)	20,30	221
HMGC6045S4331□00	330.0	100kHz,1V	2160.0	0.75(0.63)	0.63(0.50)	20,30	331
HMGC6045S4102□00	1000.0	100kHz,1V	7200.0	0.43(0.36)	0.22(0.19)	20,30	102

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

3.Isat for Inductance drop 30% from its value without current.

3.Irms for a 40℃ temprature rise from 25℃ ambient.

HMGC6045-40series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
HMGC6045S42R2□40	2.2	100kHz,1V	17	7.30(6.12)	5.50(4.95)	20,30	2R2
HMGC6045S43R3□40	3.3	100kHz,1V	24	6.00(4.95)	4.70(4.23)	20,30	3R3
HMGC6045S44R7□40	4.7	100kHz,1V	30	5.20(4.14)	4.00(3.60)	20,30	4R7
HMGC6045S46R8□40	6.8	100kHz,1V	40	4.20(3.60)	3.50(3.15)	20,30	6R8
HMGC6045S4100□40	10.0	100kHz,1V	50	3.50(2.88)	3.20(2.88)	20,30	100
HMGC6045S4150□40	15.0	100kHz,1V	80	2.80(2.34)	2.50(2.25)	20,30	150
HMGC6045S4220□40	22.0	100kHz,1V	120	2.15(1.89)	2.00(1.80)	20,30	220
HMGC6045S4330□40	33.0	100kHz,1V	170	1.70(1.53)	1.60(1.44)	20,30	330
HMGC6045S4101□40	100.0	100kHz,1V	595	0.95(0.85)	0.92(0.82)	20,30	101

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

3.Isat for Inductance drop 30% from its value without current.

3.Irms for a 40℃ temprature rise from 25℃ ambient.

HMGC8040series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
HMGC8040S4R90□00	0.9	100kHz,1V	9.10	13.80(12.42)	8.05(7.24)	30	R90
HMGC8040S41R0□00	1.0	100kHz,1V	9.75	13.00(11.70)	7.95(7.15)	30	1R0
HMGC8040S41R4□00	1.4	100kHz,1V	11.70	10.80(9.72)	7.80(7.02)	30	1R4
HMGC8040S41R5□00	1.5	100kHz,1V	12.35	10.00(9.00)	7.70(6.93)	30	1R5
HMGC8040S42R0□00	2.0	100kHz,1V	14.30	9.60(8.64)	7.40(6.66)	20,30	2R0
HMGC8040S42R2□00	2.2	100kHz,1V	14.95	9.50(8.28)	7.20(6.48)	20,30	2R2
HMGC8040S42R5□00	2.5	100kHz,1V	16.90	8.20(7.38)	6.30(5.67)	20,30	2R5
HMGC8040S43R3□00	3.3	100kHz,1V	19.50	7.50(6.75)	6.00(5.40)	20,30	3R3
HMGC8040S44R7□00	4.7	100kHz,1V	23.40	6.00(5.40)	5.50(4.95)	20,30	4R7
HMGC8040S45R6□00	5.6	100kHz,1V	29.90	5.80(5.13)	5.20(4.68)	20,30	5R6
HMGC8040S46R8□00	6.8	100kHz,1V	32.50	5.40(4.86)	5.10(4.59)	20,30	6R8
HMGC8040S48R2□00	8.2	100kHz,1V	41.60	5.00(4.10)	4.80(4.00)	20,30	8R2
HMGC8040S4100□00	10.0	100kHz,1V	49.40	4.30(3.87)	3.80(3.42)	20,30	100
HMGC8040S4120□00	12.0	100kHz,1V	58.50	4.00(3.42)	3.50(3.15)	20,30	120
HMGC8040S4150□00	15.0	100kHz,1V	65.00	3.60(3.24)	3.20(2.88)	20,30	150
HMGC8040S4180□00	18.0	100kHz,1V	88.40	3.10(2.79)	2.70(2.43)	20,30	180
HMGC8040S4220□00	22.0	100kHz,1V	104.00	2.80(2.52)	2.60(2.34)	20,30	220
HMGC8040S4330□00	33.0	100kHz,1V	143.00	2.40(2.07)	2.00(1.80)	20,30	330
HMGC8040S4470□00	47.0	100kHz,1V	208.00	2.00(1.71)	1.75(1.57)	20,30	470
HMGC8040S4680□00	68.0	100kHz,1V	288.00	1.70(1.53)	1.45(1.30)	20,30	680
HMGC8040S4101□00	100.0	100kHz,1V	408.00	1.40(1.26)	1.10(0.99)	20,30	101
HMGC8040S4121□00	120.0	100kHz,1V	552.5.	1.10(0.99)	1.00(0.90)	20,30	121
HMGC8040S4151□00	150.0	100kHz,1V	576.00	1.00(0.90)	0.90(0.81)	20,30	151
HMGC8040S4221□00	220.0	100kHz,1V	804.00	0.94(0.84)	0.88(0.76)	20,30	221
HMGC8040S4271□00	270.0	100kHz,1V	1170.00	0.83(0.74)	0.55(0.49)	20,30	271
HMGC8040S4821□00	820.0	100kHz,1V	3640.00	0.40(0.36)	0.38(0.34)	20,30	821

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

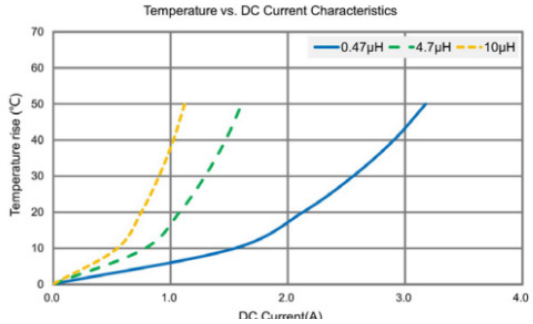
3.Isat for Inductance drop 30% from its value without current.

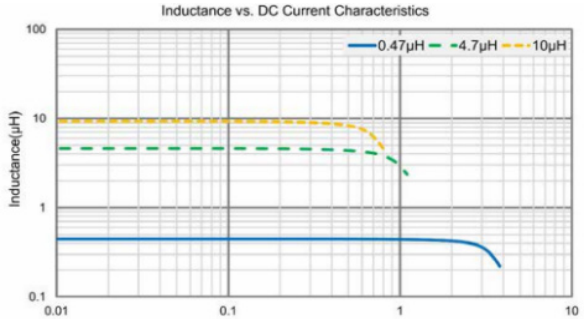
3.Irms for a 40℃ temprature rise from 25℃ ambient.

Temperature vs. DC Current Characteristics

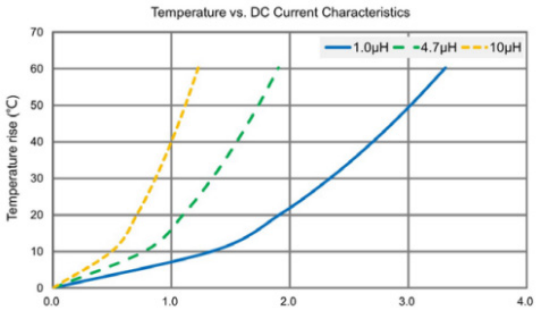
Inductance vs.DC Current Characteristics

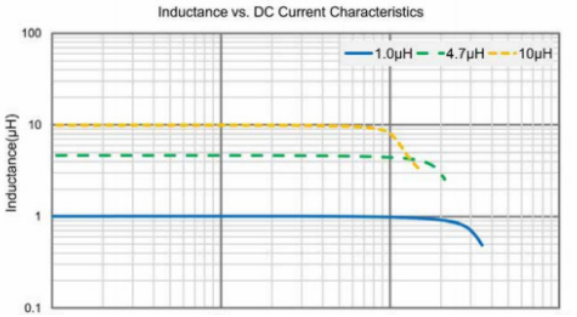
HMGC3010 series



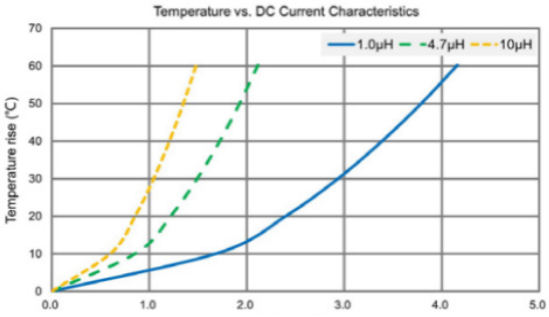


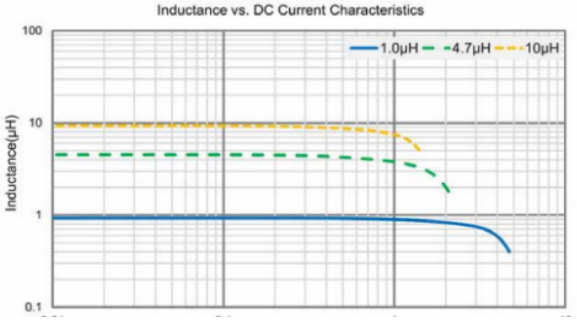
HMGC3012 series



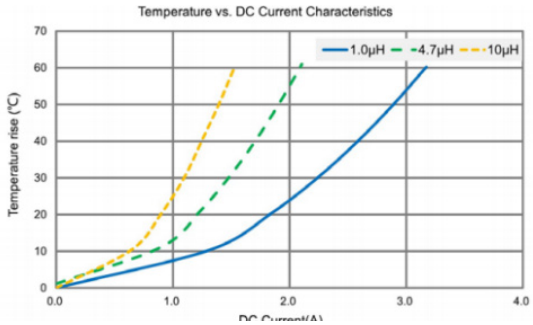


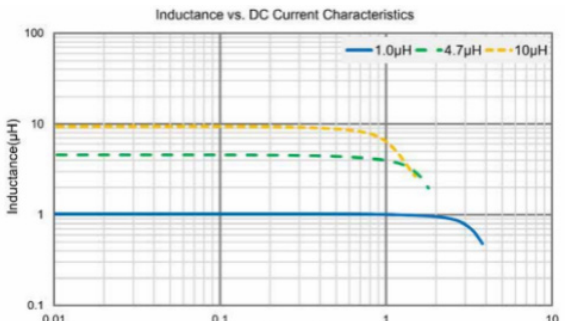
HMGC3015 series





HMGC5040 series

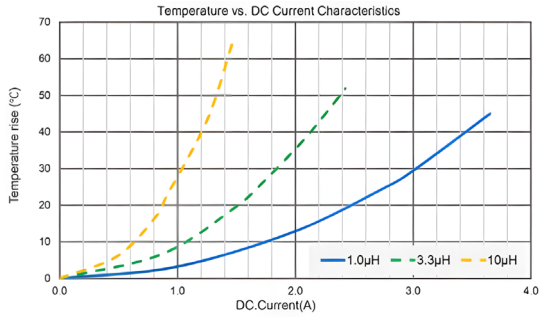


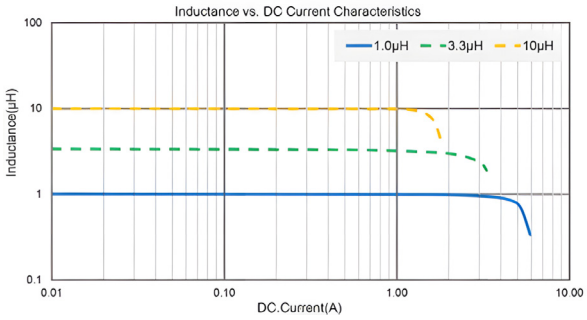


Temperature vs. DC Current Characteristics

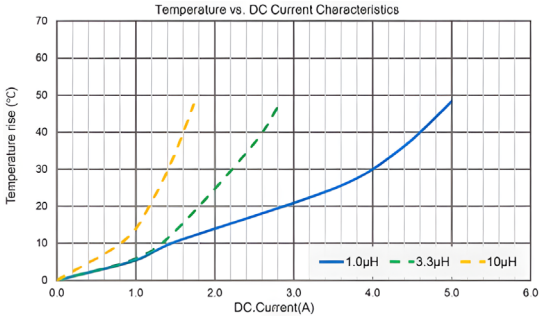
Inductance vs.DC Current Characteristics

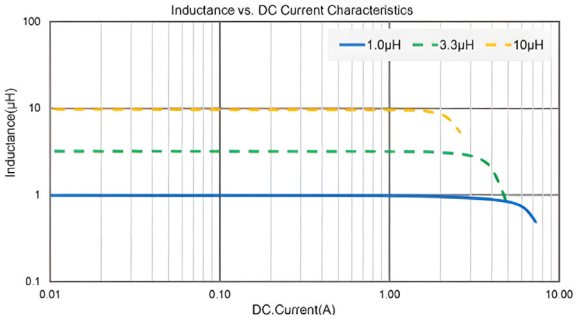
HMGC4018 series



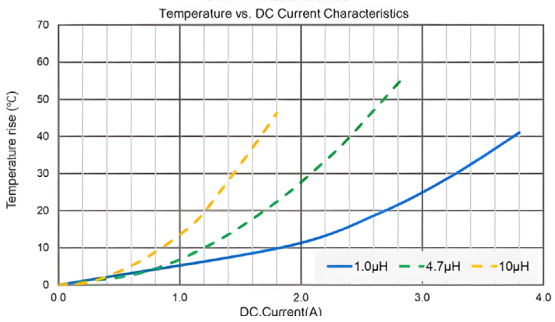


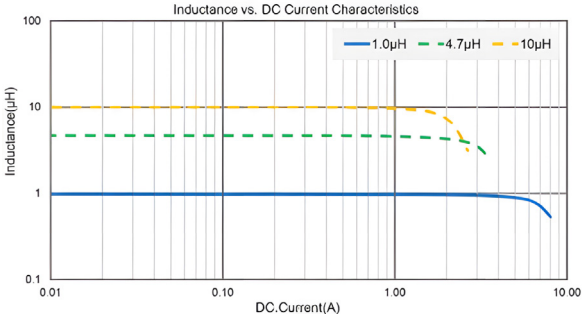
HMGC4030 series



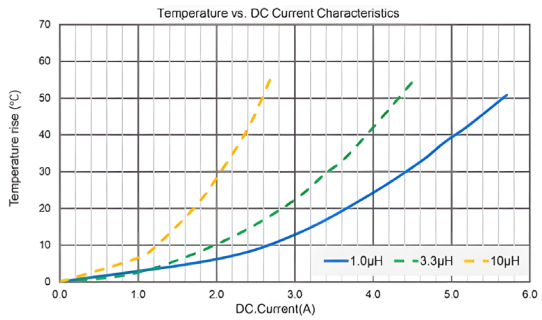


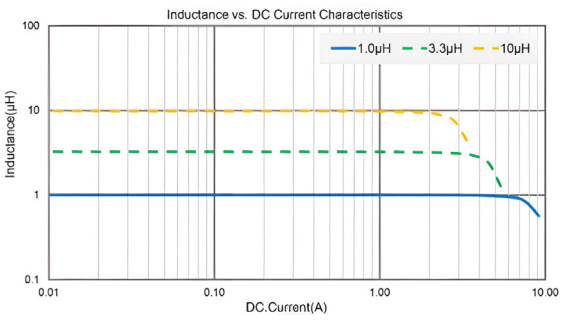
HMGC5020 series





HMGC5020 series

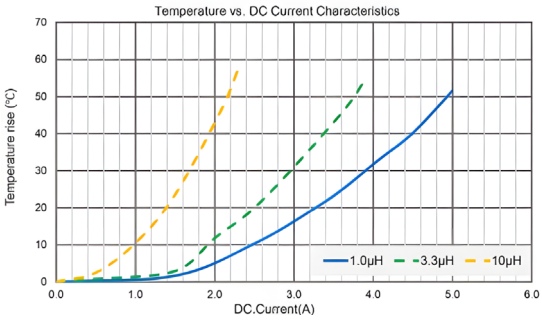


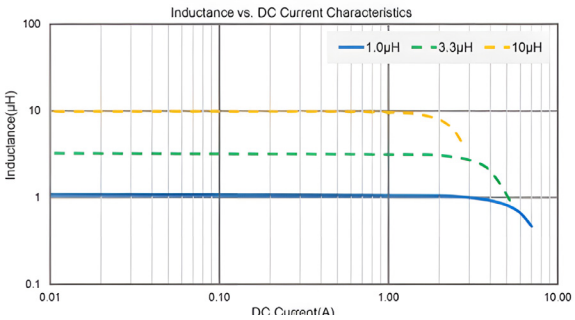


Temperature vs. DC Current Characteristics

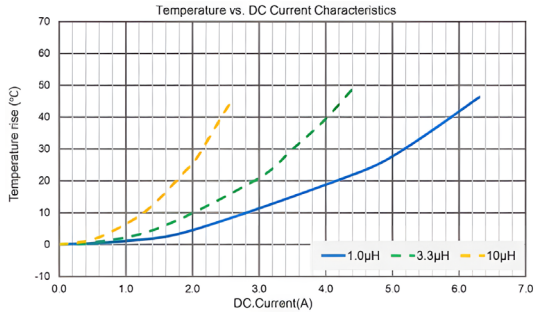
Inductance vs.DC Current Characteristics

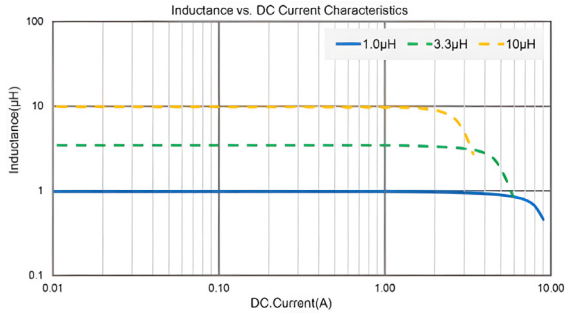
HMGC6020 series



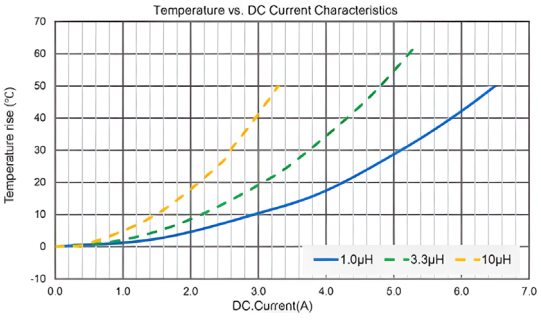


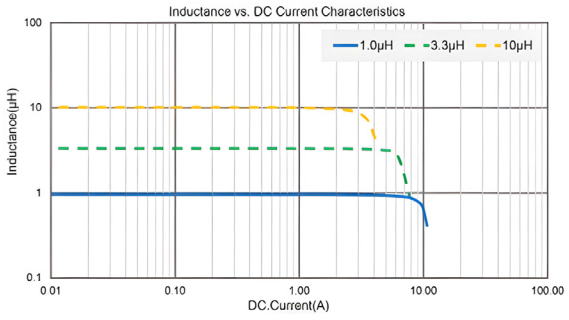
HMGC6028 series



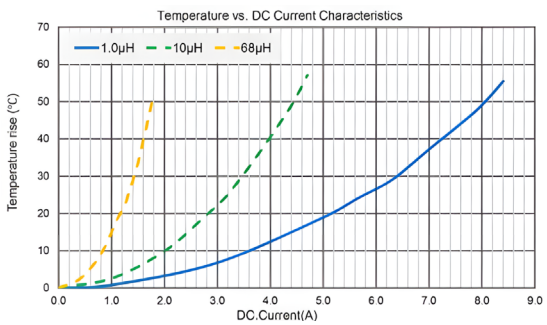


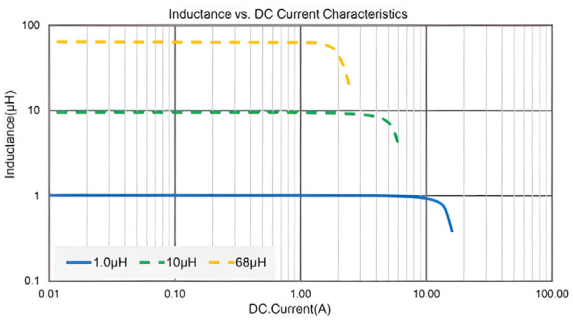
HMGC6045 series





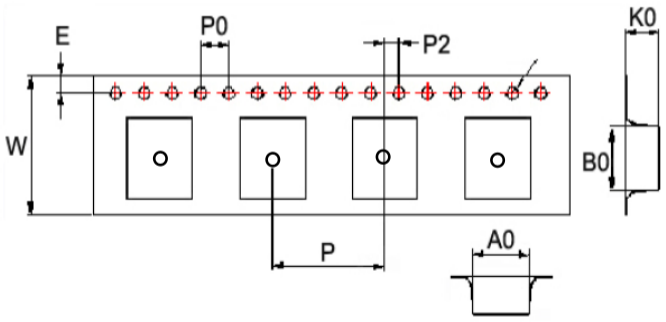
HMGC8040 series



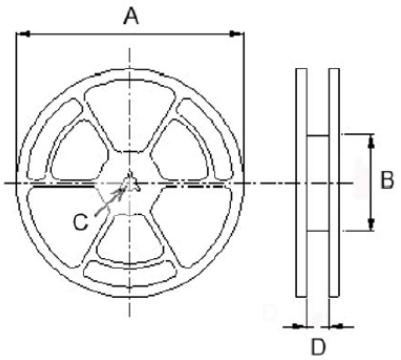


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS/REEL
	A0	B0	K0	W	P	P0	P2	A	B	C	D	
HMGC3010	3.3	3.3	1.4	8	4	4	2	180	60	13	8.4	2000
HMGC3012	3.3	3.3	1.4	8	4	4	2	180	60	13	8.4	2000
HMGC3015	3.3	3.3	1.7	8	4	4	2	180	60	13	8.4	2000
HMGC4018	4.25	4.25	2.1	12	8.1	4	2	180	60	13	13.2	800
HMGC4026	4.25	4.25	3.0	12	8.1	4	2	180	60	13	13.2	500
HMGC4030	4.25	4.25	3.1	12	8.1	4	2	330	100	13	13.2	2000
HMGC5020	5.25	5.25	2.2	12	8.1	4	2	330	100	13	13.4	2000
HMGC5040	5.25	5.25	4.2	12	8.1	4	2	330	100	13	13.4	1500
HMGC6020	6.25	6.25	2.2	16	12	4	2	330	100	13	16	2000
HMGC6028	6.25	6.25	3.0	16	12	4	2	330	100	13	16	1500
HMGC6045	6.25	6.25	4.65	16	12	4	2	330	100	13	16	1000
HMGC8040	8.25	8.25	4.15	16	12	4	2	330	100	13	16	1000
HMGC6028	6.25	6.25	3.0	16	12	4	2	330	100	13	16	1500
HMGC6045	6.25	6.25	4.65	16	12	4	2	330	100	13	16	1000
HMGC8040	8.25	8.25	4.15	16	12	4	2	330	100	13	16	1000

HDRC103~105 SERIES



FEATURES

- RoHS, Halogen Free and REACH Compliance
- Magnetic shielded
- Various package size and wide inductance range

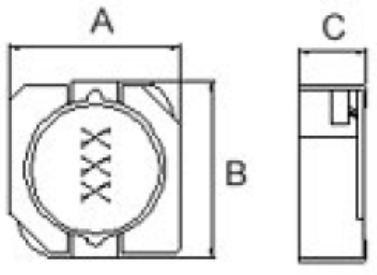
ORDERING CODE

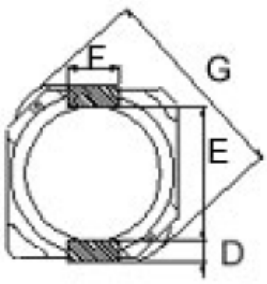
HDRC	103R	N	100	M	L	00

Type	Material	Internal code	Inductance	Tolerance	Terminal	Tail code
	103R	N：Ni-Zn	R47:0.47μH	M：±20%	L：metal	
	105R	M：Mn-Zn	4R7:4.7μH	T：±30%		

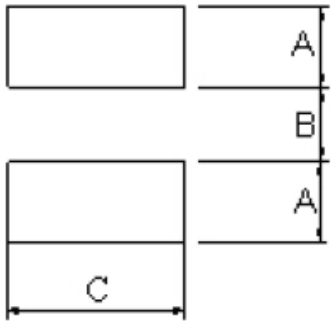
HDRC103R~105R

Shape and Dimensions





Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	G
HDRC103	10.3^{+0}	10.5^{+0}	3.1^{+0}	1.2	7.7	3.0	13.5^{+0}
HDRC104	10.3^{+0}	10.5^{+0}	4^{+0}	1.2	7.7	3.0	13.5^{+0}
HDRC105	10.3^{+0}	10.5^{+0}	5.1^{+0}	1.2	7.7	3.0	13.5^{+0}

A	B	C
1.6	7.3	3.2
1.6	7.3	3.2
1.6	7.3	3.2

HDRC103 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max.	Isat(A)	Tolerance (±%)	Marking
HDRC103N4R7□L00	4.7	100 kHz,1 V	0.030	4.65	30	4R7
HDRC103N6R8□L00	6.8	100 kHz,1 V	0.035	3.84	30	6R8
HDRC103N100□L00	10.0	100 kHz,1 V	0.059	3.18	20,30	100
HDRC103N150□L00	15.0	100 kHz,1 V	0.091	2.60	20,30	150
HDRC103N330□L00	33.0	100 kHz,1 V	0.202	1.74	20,30	330
HDRC103N470□L00	47.0	100 kHz,1 V	0.299	1.43	20,30	470
HDRC103N560□L00	56.0	100 kHz,1 V	0.325	0.90	20,30	560

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat for Inductance drop 35% from its value without current.

HDRC104 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max.	Isat(A)	Tolerance (±%)	Marking
HDRC104N1R0□L00	1.0	100 kHz,1 V	0.0075	11.00	30	1R0
HDRC104N1R5□L00	1.5	100 kHz,1 V	0.0081	10.00	30	1R5
HDRC104N1R8□L00	1.8	100 kHz,1 V	0.0095	8.50	30	1R8
HDRC104N2R2□L00	2.2	100 kHz,1 V	0.0105	7.50	30	2R2
HDRC104N2R5□L00	2.5	100 kHz,1 V	0.0105	7.50	30	2R5
HDRC104N3R3□L00	3.3	100 kHz,1 V	0.0130	6.00	30	3R3
HDRC104N3R8□L00	3.8	100 kHz,1 V	0.0130	6.00	30	3R8
HDRC104N4R7□L00	4.7	100 kHz,1 V	0.0180	5.70	30	4R7
HDRC104N5R2□L00	5.2	100 kHz,1 V	0.0220	5.50	30	5R2
HDRC104N5R6□L00	5.6	100 kHz,1 V	0.0270	5.00	30	5R6
HDRC104N6R8□L00	6.8	100 kHz,1 V	0.0270	5.00	20,30	6R8
HDRC104N7R0□L00	7.0	100 kHz,1 V	0.0270	4.80	20,30	7R0
HDRC104N8R2□L00	8.2	100 kHz,1 V	0.0330	4.50	20,30	8R2
HDRC104N100□L00	10.0	100 kHz,1 V	0.0350	4.40	20,30	100
HDRC104N150□L00	15.0	100 kHz,1 V	0.0500	3.60	20,30	150
HDRC104N180□L00	18.0	100 kHz,1 V	0.0700	3.50	20,30	180
HDRC104N220□L00	22.0	100 kHz,1 V	0.0730	2.90	20,30	220
HDRC104N270□L00	27.0	100 kHz,1 V	0.0900	2.50	20,30	270
HDRC104N330□L00	33.0	100 kHz,1 V	0.0930	2.30	20,30	330
HDRC104N390□L00	39.0	100 kHz,1 V	0.1280	2.10	20,30	390
HDRC104N470□L00	47.0	100 kHz,1 V	0.1280	2.10	20,30	470
HDRC104N560□L00	56.0	100 kHz,1 V	0.2130	1.60	20,30	560
HDRC104N680□L00	68.0	100 kHz,1 V	0.2130	1.50	20,30	680
HDRC104N820□L00	82.0	100 kHz,1 V	0.280 0	1.35	20,30	820
HDRC104N101□L00	100.0	100 kHz,1 V	0.3040	1.35	20,30	101
HDRC104N151□L00	150.0	100 kHz,1 V	0.5060	1.15	20,30	151
HDRC104N201□L00	200.0	100 kHz,1 V	0.7560	0.92	20,30	201
HDRC104N221□L00	220.0	100 kHz,1 V	0.7560	0.92	20,30	221
HDRC104N331□L00	330.0	100 kHz,1 V	1.0900	0.70	20,30	331
HDRC104N471□L00	470.0	100 kHz,1 V	1.6000	0.50	20,30	471
HDRC104N102□L00	1000.0	100 kHz,1 V	4.0000	0.30	20,30	102

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range － 40℃～ 125℃ (Including self - temperature rise)

2.Isat for Inductance drop 35% from its value without current.

HDRC105 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max.	Isat(A)	Tolerance (±%)	Marking
HDRC105NR80□L00	0.8	100 kHz,1 V	0.0043	13.50	30	R80
HDRC105N1R5□L00	1.5	100 kHz,1 V	0.0058	10.50	30	1R5
HDRC105N2R2□L00	2.2	100 kHz,1 V	0.0110	9.25	30	2R2
HDRC105N3R3□L00	3.3	100 kHz,1 V	0.0125	7.80	30	3R3
HDRC105N4R7□L00	4.7	100 kHz,1 V	0.0150	6.40	30	4R7
HDRC105N6R8□L00	6.8	100 kHz,1 V	0.0180	5.40	30	6R8
HDRC105N8R2□L00	8.2	100 kHz,1 V	0.0200	4.85	30	8R2
HDRC105N100□L00	10.0	100 kHz,1 V	0.0260	4.45	20,30	100
HDRC105N120□L00	12.0	100 kHz,1 V	0.0330	4.00	20,30	120
HDRC105N150□L00	15.0	100 kHz,1 V	0.0410	3.60	20,30	150
HDRC105N180□L00	18.0	100 kHz,1 V	0.0460	3.20	20,30	180
HDRC105N220□L00	22.0	100 kHz,1 V	0.0610	2.95	20,30	220
HDRC105N270□L00	27.0	100 kHz,1 V	0.0690	2.70	20,30	270
HDRC105N330□L00	33.0	100 kHz,1 V	0.0840	2.50	20,30	330
HDRC105N390□L00	39.0	100 kHz,1 V	0.1060	2.30	20,30	390
HDRC105N470□L00	47.0	100 kHz,1 V	0.1300	2.00	20,30	470
HDRC105N560□L00	56.0	100 kHz,1 V	0.1490	1.90	20,30	560
HDRC105N680□L00	68.0	100 kHz,1 V	0.2010	1.65	20,30	680
HDRC105N820□L00	82.0	100 kHz,1 V	0.2270	1.50	20,30	820
HDRC105N101□L00	100.0	100 kHz,1 V	0.2530	1.35	20,30	101
HDRC105N121□L00	120.0	100 kHz,1 V	0.3030	1.28	20,30	121
HDRC105N151□L00	150.0	100 kHz,1 V	0.3700	1.12	20,30	151
HDRC105N181□L00	180.0	100 kHz,1 V	0.4190	1.04	20,30	181
HDRC105N221□L00	220.0	100 kHz,1 V	0.5000	0.94	20,30	221
HDRC105N271□L00	270.0	100 kHz,1 V	0.6720	0.84	20,30	271
HDRC105N331□L00	330.0	100 kHz,1 V	0.8120	0.75	20,30	331
HDRC105N391□L00	390.0	100 kHz,1 V	0.9530	0.70	20,30	391
HDRC105N471□L00	470.0	100 kHz,1 V	1.2900	0.60	20,30	471
HDRC105N561□L00	560.0	100 kHz,1 V	1.4300	0.54	20,30	561
HDRC105N681□L00	680.0	100 kHz,1 V	1.6000	0.52	20,30	681
HDRC105N821□L00	820.0	100 kHz,1 V	1.7700	0.50	20,30	821
HDRC105N102□L00	1000.0	100 kHz,1 V	1.9900	0.48	20,30	102

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat for Inductance drop 35% from its value without current.

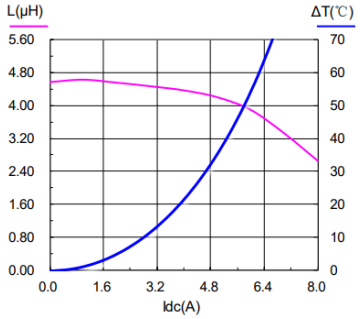
Product Characteristic Curve

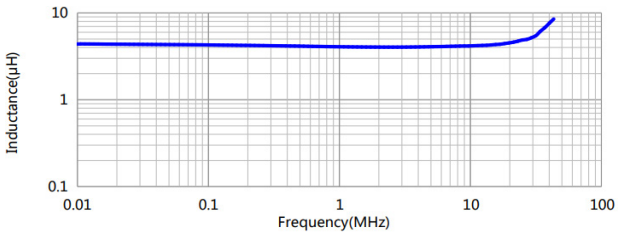
HDRC104N

Saturation Current vs Temperature Rise Current Curve

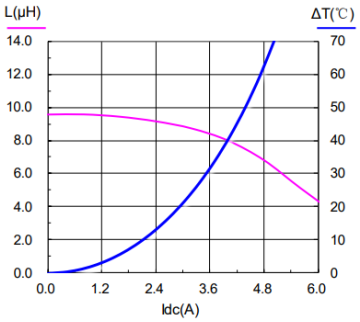
Inductance vs Frequency

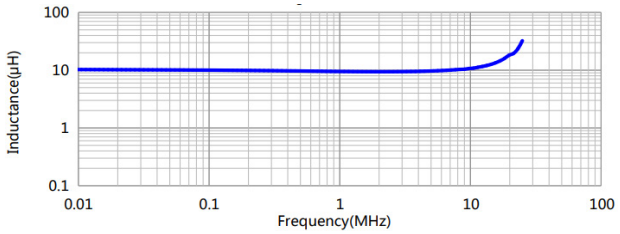
HDRC104N4R7□L00



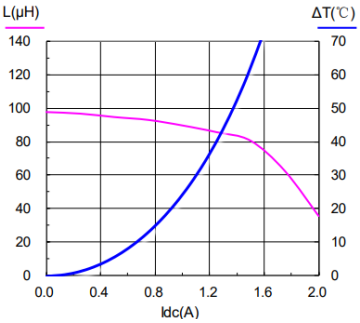


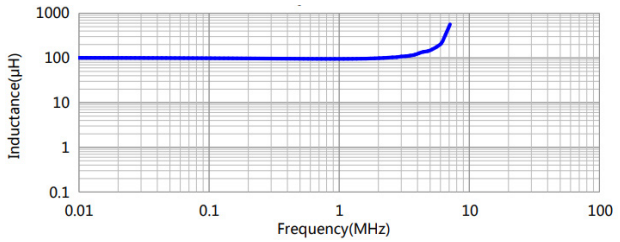
HDRC104N100□L00HDRC104N101□L00



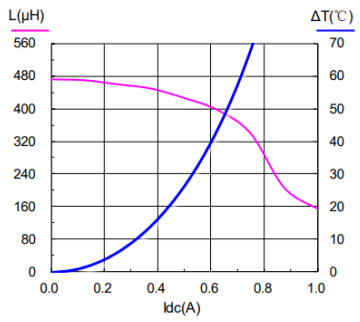


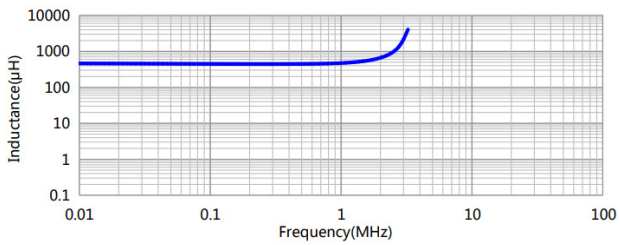
HDRC104N101□L00





HDRC104N471□L00





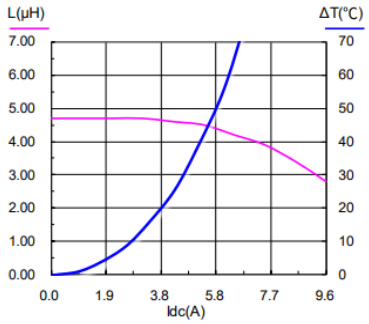
Product Characteristic Curve

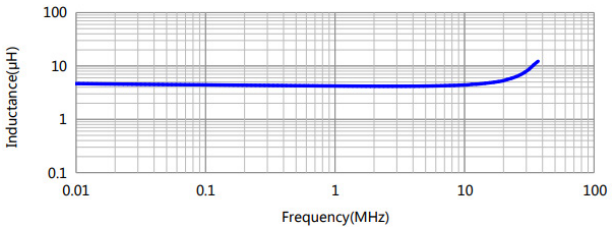
HDRC105N

Saturation Current vs Temperature Rise Current Curve

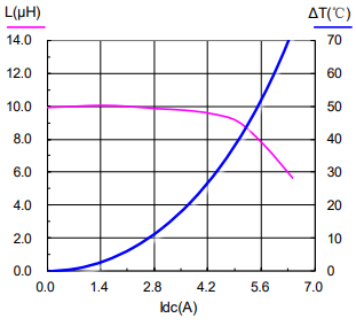
Inductance vs Frequency

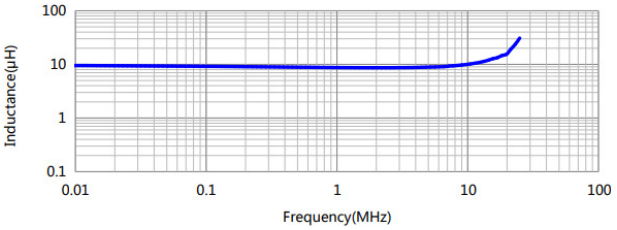
HDRC105N4R7□L00





HDRC105N100□L00





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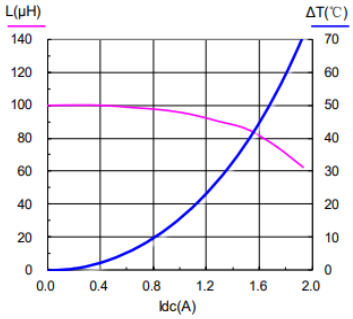

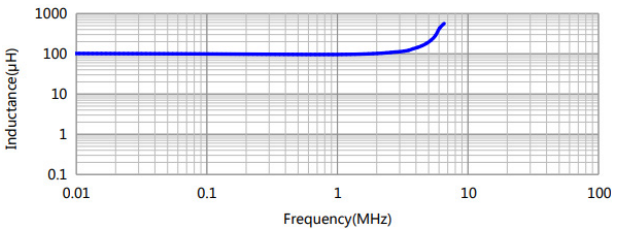

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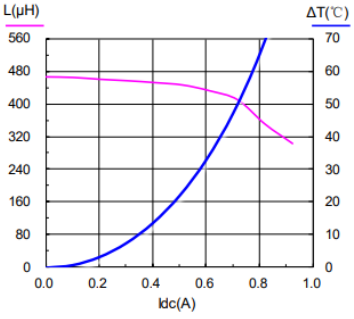
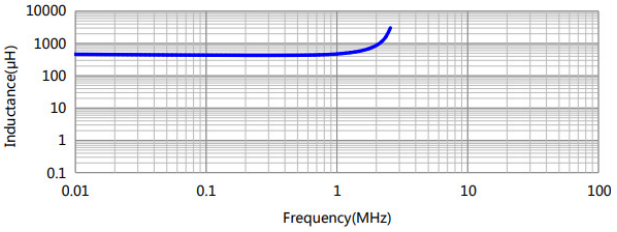
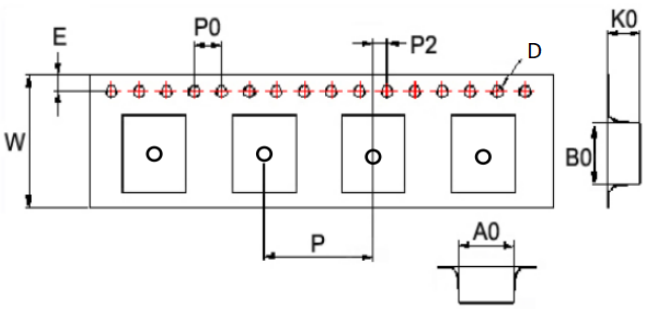


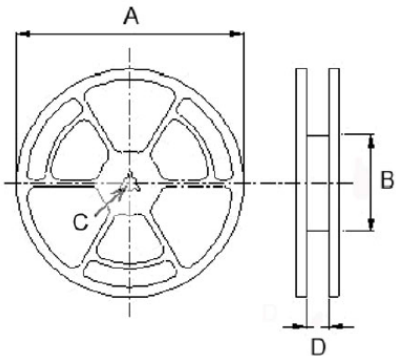


Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity PCS/REEL
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	
HDRC103	10.6	10.75	4.2	1.5	1.75	24	16	4	2	330	100	13	24.4	1000
HDRC104	10.6	10.75	4.2	1.5	1.75	24	16	4	2	330	100	13	24.4	1000
HDRC105	10.6	10.6	5	1.5	1.75	24	16	4	2	330	100	13	24.4	500

ISO9001 / ISO14001 / IATF16949

Automotive
AEC-Q200

HVMC SERIES



FEATURES

- RoHS compliant
- Varios high power nductors are suporior to be hight saturation for suface moun-ting.
- High saturation open type wire wound power inductor
- Packed in embossed carrier tape and can be vse by automatic mounting machine.

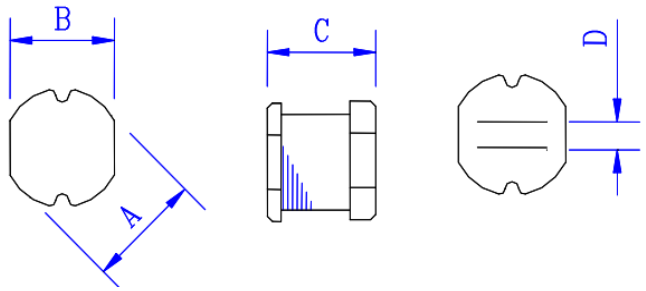
ORDERING CODE

HVMC	0504	100	M	00

Type	Dimensions	Inductance	Tolerance	Tail code
	0302	R47:0.47μH	M：±20%	
	0403	4R7:4.7μH	T：±30%	
	0503			
	0504			
	0705			

HVMC03~10

Shape and Dimensions



Dimensions in mm

TYPE	A	B	C	D	TYPE	A	B	C	D
HVMC0302	3.3±0.3	3.0±0.3	2.1±0.3	1.0	HVMC0705	7.8±0.3	7.0±0.3	5.0±0.3	2.5
HVMC0403	4.5±0.3	4.0±0.3	3.2±0.3	1.2	HVMC1004	10±0.3	9.0±0.3	4.0±0.5	3.3
HVMC0503	5.8±0.3	5.2±0.3	3.0±0.3	2.0	HVMC1005	10±0.3	9.0±0.4	5.4±0.5	3.3
HVMC0504	5.8±0.3	5.2±0.3	4.5±0.4	2.0	HVMC1006	10±0.3	9.0±0.4	6.5±0.5	3.3
HVMC0703	7.8±0.3	7.0±0.3	3.5±0.3	2.5					

HVMC 0302 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A)	Tolerance (±%)	Marking
HVMC0302R82□00	0.82	7.96 MHz,1 V	0.06	3.80	30	R82
HVMC03021R0□00	1.0	7.96 MHz,1 V	0.07	3.20	20,30	1R0
HVMC03021R4□00	1.4	7.96 MHz,1 V	0.09	2.45	20,30	1R4
HVMC03021R5□00	1.5	7.96 MHz,1 V	0.11	2.40	20,30	1R5
HVMC03021R8□00	1.8	7.96 MHz,1 V	0.11	2.10	20,30	1R8
HVMC03022R2□00	2.2	7.96 MHz,1 V	0.13	1.90	20,30	2R2
HVMC03022R7□00	2.7	7.96 MHz,1 V	0.14	1.70	20,30	2R7
HVMC03023R3□00	3.3	7.96 MHz,1 V	0.17	1.60	20,30	3R3
HVMC03023R9□00	3.9	7.96 MHz,1 V	0.19	1.50	20,30	3R9
HVMC03024R7□00	4.7	7.96 MHz,1 V	0.21	1.30	20,30	4R7
HVMC03025R6□00	5.6	7.96 MHz,1 V	0.22	1.18	20,30	5R6
HVMC03026R8□00	6.8	7.96 MHz,1 V	0.25	1.10	20,30	6R8
HVMC03027R0□00	7.0	7.96 MHz,1 V	0.28	0.98	20,30	7R0
HVMC03028R2□00	8.2	7.96 MHz,1 V	0.28	0.86	20,30	8R2
HVMC0302100□00	10.0	2.52 MHz,1 V	0.32	0.80	20,30	100
HVMC0302120□00	12.0	2.52 MHz,1 V	0.35	0.73	20,30	120
HVMC0302150□00	15.0	2.52 MHz,1 V	0.40	0.68	10,20	150
HVMC0302180□00	18.0	2.52 MHz,1 V	0.48	0.60	10,20	180
HVMC0302220□00	22.0	2.52 MHz,1 V	0.60	0.56	10,20	220
HVMC0302270□00	27.0	2.52 MHz,1 V	0.65	0.53	10,20	270
HVMC0302330□00	33.0	2.52 MHz,1 V	0.80	0.52	10,20	330
HVMC0302390□00	39.0	2.52 MHz,1 V	0.90	0.46	10,20	390
HVMC0302470□00	47.0	2.52 MHz,1 V	1.19	0.41	10,20	470
HVMC0302500□00	50.0	2.52 MHz,1 V	1.22	0.39	10,20	500
HVMC0302560□00	56.0	2.52 MHz,1 V	1.27	0.36	10,20	560
HVMC0302680□00	68.0	2.52 MHz,1 V	1.73	0.34	10,20	680
HVMC0302750□00	75.0	2.52 MHz,1 V	1.90	0.33	10,20	750
HVMC0302820□00	82.0	2.52 MHz,1 V	1.99	0.30	10,20	820
HVMC0302101□00	100.0	1 kHz,1 V	2.52	0.28	10,20	101
HVMC0302121□00	120.0	1 kHz,1 V	2.90	0.23	10,20	121
HVMC0302151□00	150.0	1 kHz,1 V	3.36	0.21	10,20	151
HVMC0302181□00	180.0	1 kHz,1 V	5.10	0.19	10,20	181
HVMC0302221□00	220.0	1 kHz,1 V	5.80	0.18	10,20	221
HVMC0302271□00	270.0	1 kHz,1 V	7.80	0.15	10,20	271

NOTE: □-Tolerance K=±10% / M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat for Inductance drop 10% from its value without current.

HVMC 0403 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A)	Tolerance (±%)	Marking
HVMC0403R15□00	0.15	7.96 MHz,1 V	0.0085	10.20	30	R15
HVMC04031R0□00	1.0	7.96 MHz,1 V	0.033	5.00	20,30	1R0
HVMC04031R2□00	1.2	7.96 MHz,1 V	0.035	4.60	20,30	1R2
HVMC04031R4□00	1.4	7.96 MHz,1 V	0.038	4.20	20,30	1R4
HVMC04031R5□00	1.5	7.96 MHz,1 V	0.038	3.80	20,30	1R5
HVMC04031R8□00	1.8	7.96 MHz,1 V	0.042	3.50	20,30	1R8
HVMC04032R2□00	2.2	7.96 MHz,1 V	0.047	3.20	20,30	2R2
HVMC04032R7□00	2.7	7.96 MHz,1 V	0.052	3.00	20,30	2R7
HVMC04033R0□00	3.0	7.96 MHz,1 V	0.058	2.90	20,30	3R0
HVMC04033R3□00	3.3	7.96 MHz,1 V	0.058	2.80	20,30	3R3
HVMC04033R9□00	3.9	7.96 MHz,1 V	0.076	2.50	20,30	3R9
HVMC04034R7□00	4.7	7.96 MHz,1 V	0.094	2.00	20,30	4R7
HVMC04035R6□00	5.6	7.96 MHz,1 V	0.101	1.90	20,30	5R6
HVMC04036R2□00	6.2	7.96 MHz,1 V	0.110	1.70	20,30	6R2
HVMC04036R8□00	6.8	7.96 MHz,1 V	0.117	1.50	20,30	6R8
HVMC04038R2□00	8.2	7.96 MHz,1 V	0.132	1.35	20,30	8R2
HVMC0403100□00	10.0	2.52 MHz,1 V	0.182	1.22	10,20	100
HVMC0403120□00	12.0	2.52 MHz,1 V	0.210	1.17	10,20	120
HVMC0403150□00	15.0	2.52 MHz,1 V	0.235	1.08	10,20	150
HVMC0403180□00	18.0	2.52 MHz,1 V	0.338	0.96	10,20	180
HVMC0403220□00	22.0	2.52 MHz,1 V	0.378	0.92	10,20	220
HVMC0403270□00	27.0	2.52 MHz,1 V	0.522	0.90	10,20	270
HVMC0403330□00	33.0	2.52 MHz,1 V	0.540	0.85	10,20	330
HVMC0403390□00	39.0	2.52 MHz,1 V	0.587	0.82	10,20	390
HVMC0403470□00	47.0	2.52 MHz,1 V	0.844	0.76	10,20	470
HVMC0403560□00	56.0	2.52 MHz,1 V	0.937	0.67	10,20	560
HVMC0403680□00	68.0	2.52 MHz,1 V	1.117	0.53	10,20	680
HVMC0403101□00	100.0	1kHz,1 V	2.000	0.48	10,20	101
HVMC0403121□00	120.0	1kHz,1 V	1.800	0.43	10,20	121
HVMC0403151□00	150.0	1kHz,1 V	2.800	0.35	10,20	151
HVMC0403181□00	180.0	1kHz,1 V	3.200	0.33	10,20	181
HVMC0403221□00	220.0	1kHz,1 V	4.000	0.27	10,20	221
HVMC0403331□00	330.0	1 kHz,1 V	5.850	0.20	10,20	331

NOTE: □-Tolerance K=±10% / M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat for Inductance drop 10% from its value without current.

HVMC 0503 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A)	Tolerance (±%)	Marking
HVMC05031R0□00	1.0	7.96 MHz,1 V	0.03	6.90	20,30	1R0
HVMC05031R2□00	1.2	7.96 MHz,1 V	0.03	5.80	20,30	1R2
HVMC05031R5□00	1.5	7.96 MHz,1 V	0.03	5.10	20,30	1R5
HVMC05031R8□00	1.8	7.96 MHz,1 V	0.03	5.00	20,30	1R8
HVMC05032R0□00	2.0	7.96 MHz,1 V	0.03	4.90	20,30	2R0
HVMC05032R2□00	2.2	7.96 MHz,1 V	0.03	4.70	20,30	2R2
HVMC05032R7□00	2.7	7.96 MHz,1 V	0.04	4.00	20,30	2R7
HVMC05033R3□00	3.3	7.96 MHz,1 V	0.05	3.60	20,30	3R3
HVMC05033R9□00	3.9	7.96 MHz,1 V	0.06	3.20	20,30	3R9
HVMC05034R7□00	4.7	7.96 MHz,1 V	0.07	3.00	20,30	4R7
HVMC05035R6□00	5.6	7.96 MHz,1 V	0.08	2.60	20,30	5R6
HVMC05036R8□00	6.8	7.96 MHz,1 V	0.09	2.40	20,30	6R8
HVMC05038R2□00	8.2	7.96 MHz,1 V	0.10	2.20	20,30	8R2
HVMC0503100□00	10.0	2.52 MHz,1 V	0.12	2.00	10,20	100
HVMC0503120□00	12.0	2.52 MHz,1 V	0.13	1.85	10,20	120
HVMC0503150□00	15.0	2.52 MHz,1 V	0.15	1.80	10,20	150
HVMC0503180□00	18.0	2.52 MHz,1 V	0.22	1.68	10,20	180
HVMC0503220□00	22.0	2.52 MHz,1 V	0.22	1.53	10,20	220
HVMC0503270□00	27.0	2.52 MHz,1 V	0.26	1.45	10,20	270
HVMC0503330□00	33.0	2.52 MHz,1 V	0.33	1.22	10,20	330
HVMC0503390□00	39.0	2.52 MHz,1 V	0.42	1.06	10,20	390
HVMC0503470□00	47.0	2.52 MHz,1 V	0.50	0.98	10,20	470
HVMC0503560□00	56.0	2.52 MHz,1 V	0.55	0.83	10,20	560
HVMC0503680□00	68.0	2.52 MHz,1 V	0.65	0.78	10,20	680
HVMC0503820□00	82.0	2.52 MHz,1 V	0.80	0.66	10,20	820
HVMC0503101□00	100.0	1 kHz,1 V	0.90	0.64	10,20	101
HVMC0503121□00	120.0	1 kHz,1 V	1.00	0.58	10,20	121
HVMC0503151□00	150.0	1 kHz,1 V	1.30	0.49	10,20	151
HVMC0503181□00	180.0	1 kHz,1 V	1.50	0.45	10,20	181
HVMC0503221□00	220.0	1 kHz,1 V	2.00	0.41	10,20	221
HVMC0503271□00	270.0	1 kHz,1 V	2.50	0.36	10,20	271
HVMC0503331□00	330.0	1 kHz,1 V	3.20	0.32	10,20	331
HVMC0503391□00	390.0	1 kHz,1 V	3.50	0.27	10,20	391
HVMC0503471□00	470.0	1 kHz,1 V	4.20	0.25	10,20	471
HVMC0503561□00	560.0	1 kHz,1 V	4.50	0.20	10,20	561
HVMC0503681□00	680.0	1 kHz,1 V	6.50	0.18	10,20	681
HVMC0503821□00	820.0	1 kHz,1 V	7.50	0.16	10,20	821
HVMC0503102□00	1000.0	1 kHz,1 V	8.00	0.15	10,20	102

NOTE: □-Tolerance K=±10% / M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat for Inductance drop 10% from its value without current.

HVMC 0504 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A)	Tolerance (±%)	Marking
HVMC05041R8□00	1.8	7.96 MHz,1 V	0.0200	5.80	20,30	1R8
HVMC05042R2□00	2.2	7.96 MHz,1 V	0.0230	3.60	20,30	2R2
HVMC05043R3□00	3.3	7.96 MHz,1 V	0.0314	3.00	20,30	3R3
HVMC05043R5□00	3.5	7.96 MHz,1 V	0.0300	2.80	20,30	3R5
HVMC05044R7□00	4.7	7.96 MHz,1 V	0.0372	2.70	20,30	4R7
HVMC05046R8□00	6.8	7.96 MHz,1 V	0.0570	2.20	20,30	6R8
HVMC05048R2□00	8.2	7.96 MHz,1 V	0.0594	2.10	20,30	8R2
HVMC0504100□00	10.0	2.52 MHz,1 V	0.1000	1.80	10,20	100
HVMC0504120□00	12.0	2.52 MHz,1 V	0.1200	1.50	10,20	120
HVMC0504150□00	15.0	2.52 MHz,1 V	0.1400	1.40	10,20	150
HVMC0504180□00	18.0	2.52 MHz,1 V	0.1500	1.30	10,20	180
HVMC0504220□00	22.0	2.52 MHz,1 V	0.1800	1.15	10,20	220
HVMC0504270□00	27.0	2.52 MHz,1 V	0.2000	1.00	10,20	270
HVMC0504330□00	33.0	2.52 MHz,1 V	0.2300	0.91	10,20	330
HVMC0504390□00	39.0	2.52 MHz,1 V	0.3200	0.85	10,20	390
HVMC0504470□00	47.0	2.52 MHz,1 V	0.3700	0.76	10,20	470
HVMC0504560□00	56.0	2.52 MHz,1 V	0.4200	0.71	10,20	560
HVMC0504680□00	68.0	2.52 MHz,1 V	0.4600	0.64	10,20	680
HVMC0504820□00	82.0	2.52 MHz,1 V	0.6000	0.60	10,20	820
HVMC0504101□00	100.0	1 kHz,1 V	0.7000	0.55	10,20	101
HVMC0504121□00	120.0	1 kHz,1 V	0.9300	0.52	10,20	121
HVMC0504151□00	150.0	1 kHz,1 V	1.1000	0.43	10,20	151
HVMC0504181□00	180.0	1 kHz,1 V	1.3800	0.40	10,20	181
HVMC0504221□00	220.0	1 kHz,1 V	1.5700	0.37	10,20	221
HVMC0504271□00	270.0	1 kHz,1 V	1.8500	0.31	10,20	271
HVMC0504331□00	330.0	1 kHz,1 V	2.0000	0.30	10,20	331
HVMC0504391□00	390.0	1 kHz,1 V	2.6000	0.28	10,20	391
HVMC0504471□00	470.0	1 kHz,1 V	3.0000	0.20	10,20	471
HVMC0504561□00	560.0	1 kHz,1 V	4.1900	0.15	10,20	561
HVMC0504681□00	680.0	1 kHz,1 V	4.4400	0.10	10,20	681
HVMC0504821□00	820.0	1 kHz,1 V	5.1200	0.08	10,20	821
HVMC0504102□00	1000.0	1 kHz,1 V	10.0000	0.06	10,20	102

NOTE: □-Tolerance K=±10% / M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat for Inductance drop 10% from its value without current.

HVMC 0703 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A)	Tolerance (±%)	Marking
HVMC07032R2□00	2.2	7.96 MHz,1 V	0.03	4.30	20,30	2R2
HVMC07034R7□00	4.7	2.52 MHz,1 V	0.04	3.00	20,30	4R7
HVMC0703100□00	10.0	2.52 MHz,1 V	0.08	2.20	10,20	100
HVMC0703120□00	12.0	2.52 MHz,1 V	0.09	1.43	10,20	120
HVMC0703150□00	15.0	2.52 MHz,1 V	0.10	1.28	10,20	150
HVMC0703180□00	18.0	2.52 MHz,1 V	0.11	1.19	10,20	180
HVMC0703220□00	22.0	2.52 MHz,1 V	0.13	1.13	10,20	220
HVMC0703270□00	27.0	2.52 MHz,1 V	0.15	1.00	10,20	270
HVMC0703330□00	33.0	2.52 MHz,1 V	0.17	0.92	10,20	330
HVMC0703390□00	39.0	2.52 MHz,1 V	0.22	0.81	10,20	390
HVMC0703470□00	47.0	2.52 MHz,1 V	0.25	0.73	10,20	470
HVMC0703560□00	56.0	2.52 MHz,1 V	0.28	0.68	10,20	560
HVMC0703680□00	68.0	2.52 MHz,1 V	0.33	0.62	10,20	680
HVMC0703820□00	82.0	2.52 MHz,1 V	0.41	0.55	10,20	820
HVMC0703101□00	100.0	1 kHz,1 V	0.48	0.52	10,20	101
HVMC0703121□00	120.0	1 kHz,1 V	0.54	0.50	10,20	121
HVMC0703151□00	150.0	1 kHz,1 V	0.75	0.43	10,20	151
HVMC0703181□00	180.0	1 kHz,1 V	1.02	0.39	10,20	181
HVMC0703221□00	220.0	1 kHz,1 V	1.20	0.33	10,20	221
HVMC0703271□00	270.0	1 kHz,1 V	1.31	0.30	10,20	271
HVMC0703331□00	330.0	1 kHz,1 V	1.50	0.29	10,20	331
HVMC0703561□00	560.0	1 kHz,1 V	2.50	0.15	10,20	561

NOTE: □-Tolerance K=±10% / M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Isat for Inductance drop 10% from its value without current.

HVMC 0705 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A)	Tolerance (±%)	Marking
HVMC07051R4□00	1.4	7.96 MHz,1 V	0.012	6.50	20,30	1R4
HVMC07051R5□00	1.5	7.96 MHz,1 V	0.014	6.20	20,30	1R5
HVMC07051R8□00	1.8	7.96 MHz,1 V	0.018	5.30	20,30	1R8
HVMC07052R2□00	2.2	7.96 MHz,1 V	0.020	4.80	20,30	2R2
HVMC07052R7□00	2.7	7.96 MHz,1 V	0.021	4.50	20,30	2R7
HVMC07053R0□00	3.0	7.96 MHz,1 V	0.025	4.30	20,30	3R0
HVMC07053R3□00	3.3	7.96 MHz,1 V	0.030	4.10	20,30	3R3
HVMC07053R6□00	3.6	7.96 MHz,1 V	0.032	4.00	20,30	3R6
HVMC07053R9□00	3.9	7.96 MHz,1 V	0.035	3.80	20,30	3R9
HVMC07054R7□00	4.7	7.96 MHz,1 V	0.038	3.60	20,30	4R7
HVMC07055R6□00	5.6	7.96 MHz,1 V	0.039	3.50	20,30	5R6
HVMC07056R8□00	6.8	7.96 MHz,1 V	0.040	3.20	20,30	6R8
HVMC07058R2□00	8.2	7.96 MHz,1 V	0.050	2.90	20,30	8R2
HVMC0705100□00	10.0	2.52 MHz,1 V	0.070	2.50	10,20	100
HVMC0705120□00	12.0	2.52 MHz,1 V	0.080	2.10	10,20	120
HVMC0705150□00	15.0	2.52 MHz,1 V	0.090	1.92	10,20	150
HVMC0705180□00	18.0	2.52 MHz,1 V	0.100	1.70	10,20	180
HVMC0705220□00	22.0	2.52 MHz,1 V	0.110	1.55	10,20	220
HVMC0705270□00	27.0	2.52 MHz,1 V	0.120	1.36	10,20	270
HVMC0705330□00	33.0	2.52 MHz,1 V	0.130	1.27	10,20	330
HVMC0705390□00	39.0	2.52 MHz,1 V	0.160	1.16	10,20	390
HVMC0705470□00	47.0	2.52 MHz,1 V	0.180	1.12	10,20	470
HVMC0705560□00	56.0	2.52 MHz,1 V	0.240	0.98	10,20	560
HVMC0705680□00	68.0	2.52 MHz,1 V	0.280	0.88	10,20	680
HVMC0705820□00	82.0	2.52 MHz,1 V	0.370	0.80	10,20	820
HVMC0705101□00	100.0	1 kHz,1 V	0.430	0.76	10,20	101
HVMC0705121□00	120.0	1 kHz,1 V	0.470	0.69	10,20	121
HVMC0705151□00	150.0	1 kHz,1 V	0.640	0.61	10,20	151
HVMC0705181□00	180.0	1 kHz,1 V	0.710	0.54	10,20	181
HVMC0705221□00	220.0	1 kHz,1 V	0.960	0.50	10,20	221
HVMC0705271□00	270.0	1 kHz,1 V	1.110	0.45	10,20	271
HVMC0705331□00	330.0	1 kHz,1 V	1.260	0.42	10,20	331
HVMC0705391□00	390.0	1 kHz,1 V	1.770	0.38	10,20	391
HVMC0705471□00	470.0	1 kHz,1 V	1.960	0.36	10,20	471
HVMC0705561□00	560.0	1 kHz,1 V	2.410	0.33	10,20	561
HVMC0705681□00	680.0	1 kHz,1 V	2.500	0.30	10,20	681
HVMC0705102□00	1000.0	1 kHz,1 V	2.800	0.21	10,20	102

NOTE: □-Tolerance K=±10% / M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat for Inductance drop 10% from its value without current.

HVMC 1004 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A)	Tolerance (±%)	Marking
HVMC10043R8□00	3.8	7.96 MHz,1 V	0.022	4.86	20,30	3R8
HVMC1004100□00	10.0	2.52 MHz,1 V	0.05	2.95	10,20	100
HVMC1004120□00	12.0	2.52 MHz,1 V	0.06	2.55	10,20	120
HVMC1004150□00	15.0	2.52 MHz,1 V	0.07	2.10	10,20	150
HVMC1004180□00	18.0	2.52 MHz,1 V	0.08	2.00	10,20	180
HVMC1004220□00	22.0	2.52 MHz,1 V	0.09	1.88	10,20	220
HVMC1004270□00	27.0	2.52 MHz,1 V	0.10	1.79	10,20	270
HVMC1004330□00	33.0	2.52 MHz,1 V	0.12	1.73	10,20	330
HVMC1004390□00	39.0	2.52 MHz,1 V	0.15	1.56	10,20	390
HVMC1004470□00	47.0	2.52 MHz,1 V	0.17	1.24	10,20	470
HVMC1004560□00	56.0	2.52 MHz,1 V	0.20	1.10	10,20	560
HVMC1004680□00	68.0	2.52 MHz,1 V	0.22	1.00	10,20	680
HVMC1004820□00	82.0	2.52 MHz,1 V	0.30	0.88	10,20	820
HVMC1004101□00	100.0	1 kHz,1 V	0.34	0.78	10,20	101
HVMC1004121□00	120.0	1 kHz,1 V	0.40	0.73	10,20	121
HVMC1004151□00	150.0	1 kHz,1 V	0.54	0.65	10,20	151
HVMC1004181□00	180.0	1 kHz,1 V	0.62	0.60	10,20	181
HVMC1004221□00	220.0	1 kHz,1 V	0.72	0.56	10,20	221
HVMC1004271□00	270.0	1 kHz,1 V	0.95	0.49	10,20	271
HVMC1004331□00	330.0	1 kHz,1 V	1.10	0.43	10,20	331
HVMC1004391□00	390.0	1 kHz,1 V	1.24	0.40	10,20	391
HVMC1004471□00	470.0	1 kHz,1 V	1.53	0.37	10,20	471
HVMC1004561□00	560.0	1 kHz,1 V	1.90	0.34	10,20	561

NOTE: □-Tolerance K=±10% / M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat for Inductance drop 10% from its value without current.

HVMC 1005 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A)	Tolerance (±%)	Marking
HVMC10053R3□00	3.3	7.96 MHz,1 V	0.028	6.20	20,30	3R3
HVMC10054R7□00	4.7	7.96 MHz,1 V	0.030	5.60	20,30	4R7
HVMC10055R6□00	5.6	7.96 MHz,1 V	0.037	5.30	20,30	5R6
HVMC10056R8□00	6.8	7.96 MHz,1 V	0.040	5.10	20,30	6R8
HVMC10058R2□00	8.2	7.96 MHz,1 V	0.050	4.30	20,30	8R2
HVMC1005100□00	10.0	2.52 MHz,1 V	0.060	3.50	10,20	100
HVMC1005120□00	12.0	2.52 MHz,1 V	0.070	3.10	10,20	120
HVMC1005150□00	15.0	2.52 MHz,1 V	0.080	2.96	10,20	150
HVMC1005180□00	18.0	2.52 MHz,1 V	0.090	2.63	10,20	180
HVMC1005220□00	22.0	2.52 MHz,1 V	0.100	2.15	10,20	220
HVMC1005270□00	27.0	2.52 MHz,1 V	0.110	1.97	10,20	270
HVMC1005330□00	33.0	2.52 MHz,1 V	0.120	1.66	10,20	330
HVMC1005390□00	39.0	2.52 MHz,1 V	0.140	1.52	10,20	390
HVMC1005470□00	47.0	2.52 MHz,1 V	0.170	1.39	10,20	470
HVMC1005560□00	56.0	2.52 MHz,1 V	0.190	1.28	10,20	560
HVMC1005680□00	68.0	2.52 MHz,1 V	0.220	1.20	10,20	680
HVMC1005820□00	82.0	2.52 MHz,1 V	0.250	1.16	10,20	820
HVMC1005101□00	100.0	1 kHz,1 V	0.350	1.05	10,20	101
HVMC1005121□00	120.0	1 kHz,1 V	0.400	0.94	10,20	121
HVMC1005151□00	150.0	1 kHz,1 V	0.470	0.85	10,20	151
HVMC1005181□00	180.0	1 kHz,1 V	0.630	0.81	10,20	181
HVMC1005221□00	220.0	1 kHz,1 V	0.730	0.76	10,20	221
HVMC1005271□00	270.0	1 kHz,1 V	0.970	0.62	10,20	271
HVMC1005331□00	330.0	1 kHz,1 V	1.150	0.57	10,20	331
HVMC1005391□00	390.0	1 kHz,1 V	1.300	0.53	10,20	391
HVMC1005471□00	470.0	1 kHz,1 V	1.480	0.50	10,20	471
HVMC1005561□00	560.0	1 kHz,1 V	1.900	0.46	10,20	561
HVMC1005681□00	680.0	1 kHz,1 V	2.250	0.39	10,20	681
HVMC1005821□00	820.0	1 kHz,1 V	2.550	0.33	10,20	821
HVMC1005102□00	1000.0	1 kHz,1 V	3.100	0.25	10,20	102

NOTE: □-Tolerance K=±10% / M=±20% / T=±30%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat for Inductance drop 10% from its value without current.

HVMC 1006 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Max	Isat(A)	Tolerance (±%)	Marking
HVMC1006471□00	470	1 kHz,1 V	1.421	0.82	10,20	471
HVMC1006102□00	1000	1 kHz,1 V	2.900	0.60	10,20	102
HVMC1006122□00	1200	1 kHz,1 V	3.500	0.50	10,20	122
HVMC1006152□00	1500	1 kHz,1 V	3.800	0.45	10,20	152
HVMC1006202□00	2000	1 kHz,1 V	6.600	0.40	10,20	202
HVMC1006222□00	2200	1 kHz,1 V	6.800	0.40	10,20	222
HVMC1006602□00	6000	1 kHz,1 V	14.000	0.27	10,20	602
HVMC1006822□00	8200	1 kHz,1 V	50.000	0.20	10,20	822

NOTE: □-Tolerance K=±10% / M=±20% / T=±30%

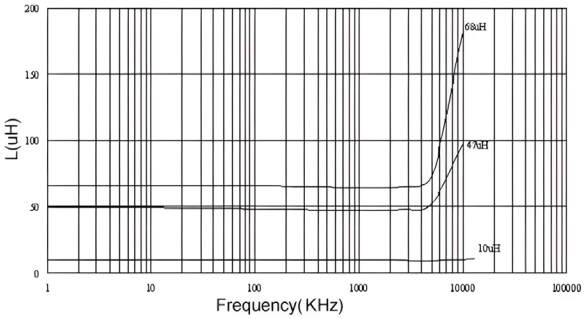
1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Isat for Inductance drop 10% from its value without current.

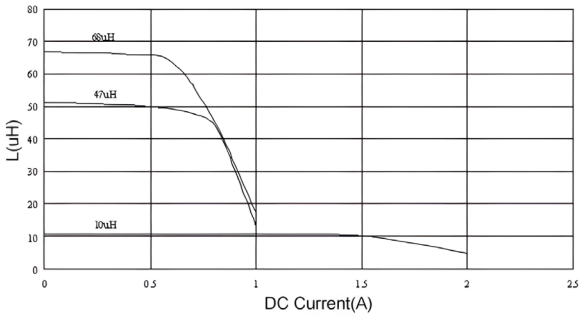
Product Characteristic Curve

HVMC0403 series

Inductance vs.Frequency Characteristics

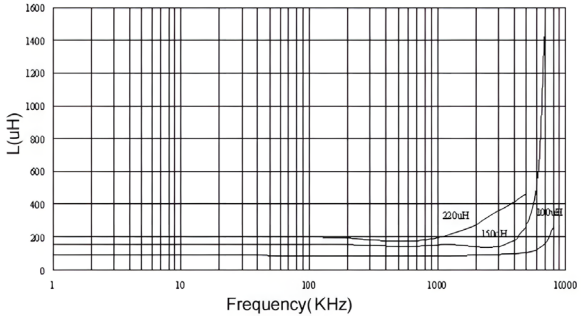


Inductance vs.DC Current Characteristics

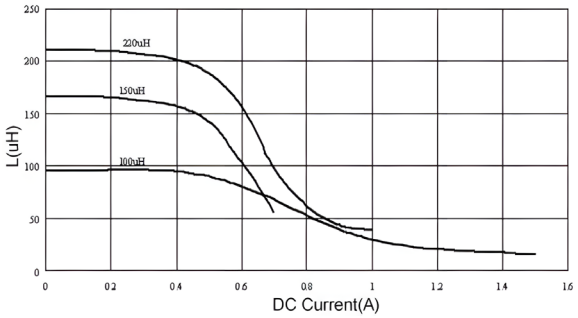


HVMC0504 series

Inductance vs.Frequency Characteristics

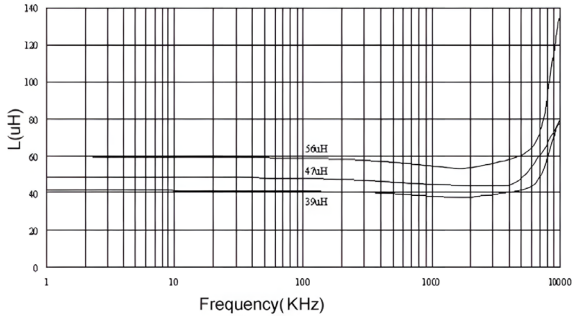


Inductance vs.DC Current Characteristics

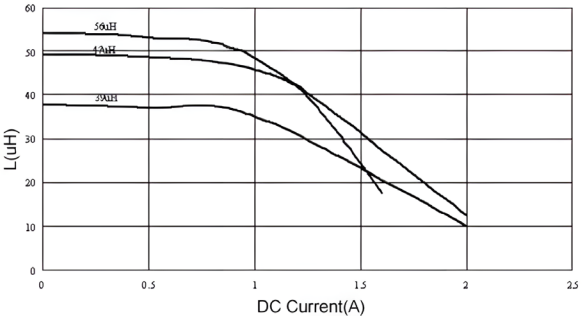


HVMC0703 series

Inductance vs.Frequency Characteristics

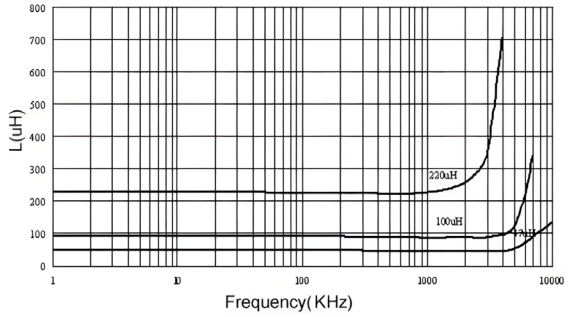


Inductance vs.DC Current Characteristics

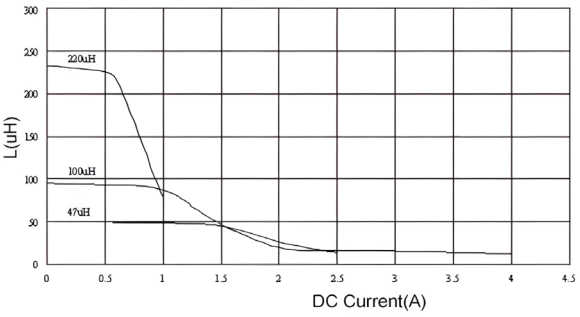


HVMC0705 series

Inductance vs.Frequency Characteristics



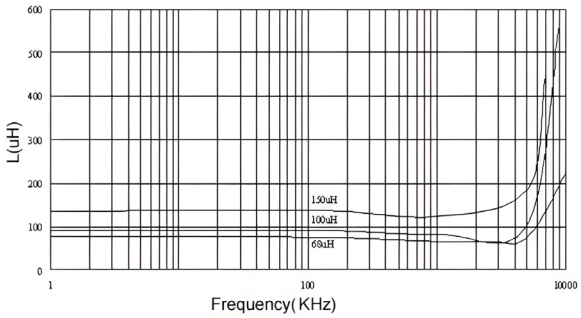
Inductance vs.DC Current Characteristics



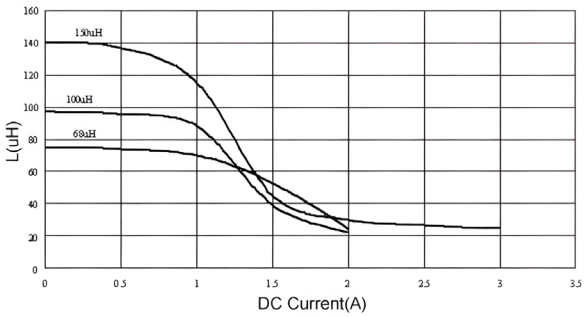
Product Characteristic Curve

HVMC1004 series

Inductance vs.Frequency Characteristics

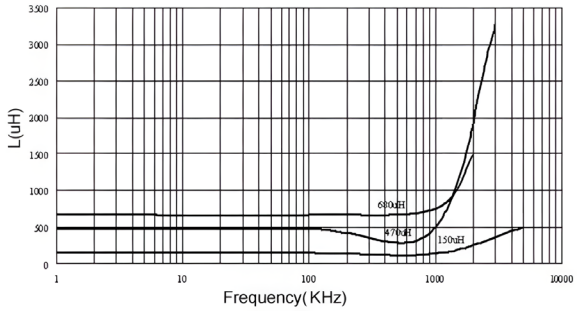


Inductance vs.DC Current Characteristics

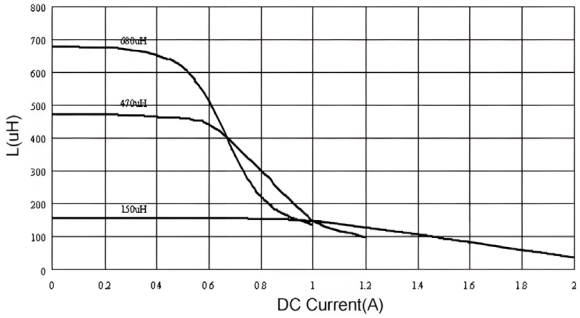


HVMC1005 series

Inductance vs.Frequency Characteristics

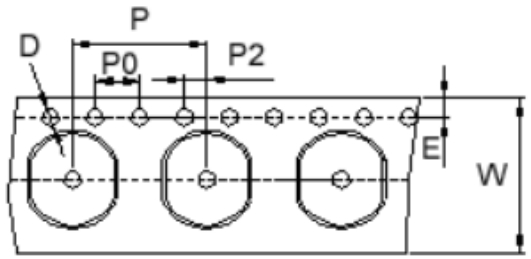


Inductance vs.DC Current Characteristics



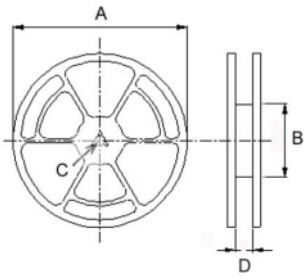
Packaging Specifications

Tape Dimensions





Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS/REEL
	K0	D	E	W	P	P0	P2	A	B	C	D	
HVMC0302	2.5	1.55	1.75	12	8	4	2	330	100	13	13.4	3000
HVMC0403	3.55	1.55	1.75	12	8	4	2	330	100	13	13.4	2000
HVMC0502	3.3	1.5	1.75	16	8	4	2	330	100	13	16	2000
HVMC0503	3.3	1.5	1.75	16	8	4	2	330	100	13	16	2000
HVMC0504	4.8	1.55	1.75	16	8	4	2	330	100	13	16	1500
HVMC0703	3.8	1.55	1.75	16	12	4	2	330	100	13	16	1500
HVMC0705	5.2	1.55	1.75	16	12	4	2	330	100	13	24.4	1000
HVMC1004	4.5	1.55	1.75	24	12	4	2	330	100	13	24.4	700
HVMC1005	5.8	1.55	1.75	24	12	4	2	330	100	13	24.4	700
HVMC1006	7.0	1.55	1.75	24	16	4	2	330	100	13	24.4	500

HBNC0804 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(Ω) Max	Isat(A)	Irms(A)	SRF(MHz) Typ.
HBNC0804	1.0 ~1500	100 kHz,0.1 V	0.009~4.5	9.00~0.25	6.8~0.2	100~1.4
HBNC0810	2.2~1000	100 kHz,0.1 V	0.0072~2.0	13~0.8	4.5~0.1	30~1.5
HBNC1306	1.0~1000	100 kHz,0.1 V	0.0143~2.34	20~1.0	8.6~0.56	80~2.0

NOTE: □-Tolerance M=±20% / T=±30%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

3.Isat for Inductance drop 20% from its value without current.

3.Irms for a 15℃ temprature rise from 25℃ ambient.

Packaging Specifications

Fig.1

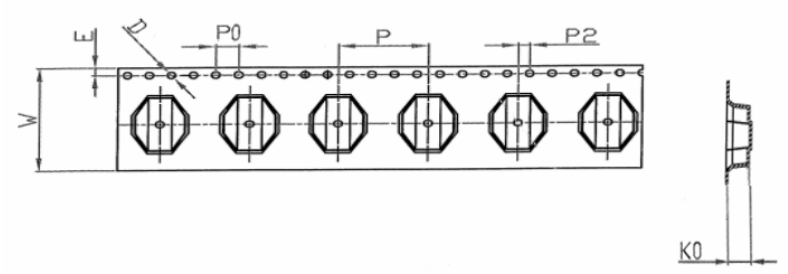
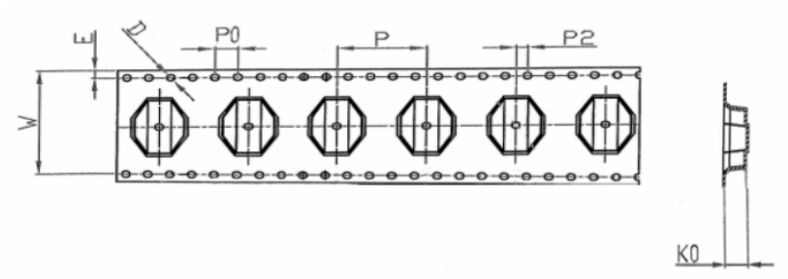
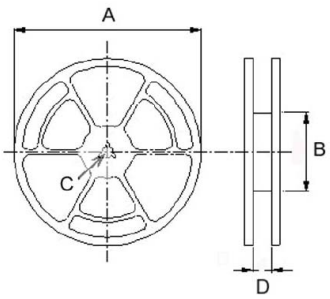


Fig.2



Reel Dimensions



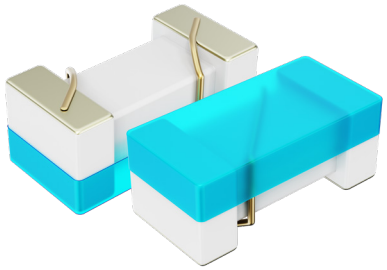
Dimensions in mm

TYPE	Tape Dimensions								Reel Dimensions				Quantity PCS/REEL
	K0	D	E	W	P	P0	P2	Shape	A	B	C	D	
HBNC0804	5.4	1.55	1.75	24	16	4	2	Fig. 1	330	100	13	24.4	750
HBNC0810	11.5	1.55	1.75	24	20	4	2	Fig. 1	330	100	13	24.4	225
HBNC1306	7.5	1.55	1.75	32	20	4	2	Fig. 2	330	100	13	32.4	350

ISO9001 / ISO14001 / IATF16949

Automotive
AEC-Q200

HPWC SERIES



FEATURES

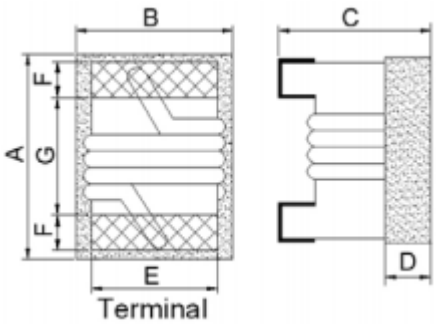
- RoHS Compliant
- Ceramic body and wire wound construction provide high SRF
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency
- HPWC series is standard for RF designers

ORDERING CODE

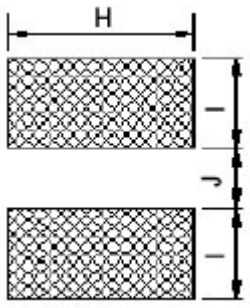
HPWC	1608	N	10N	J	P	00

Type	Dimensions	Internal code	Inductance	Tolerance	Packaging	Tail code
	1005	N：No dot color	1N0:1.0nH	B：±0.1nH	P：plastic tape	
	1608	M：Dot color	10N:10.0NH	C：±0.2nH	E：paper tape	
	2012		R10:100.0NH	S：±0.3nH		
	2520			G：±2%		
				H：±3%		
				J：±5%		
				K：±10%		

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I	J
HPWC1005	1.19max	0.7max	0.66max	0.25typ	0.51typ	0.23typ	0.56typ	0.66typ	0.36typ	0.46typ
HPWC1005-20	1.22max	0.8max	0.66max	0.25typ	0.46typ	0.20typ	0.60typ	0.66typ	0.36typ	0.50typ
HPWC1608	1.6±0.2	1.02±0.1	0.82±0.2	0.50typ	0.76typ	0.33typ	0.86typ	1.02typ	0.64typ	0.64typ
HPWC2012	2.35max	1.73max	1.52max	0.70typ	1.27typ	0.51typ	1.02typ	1.78typ	1.02typ	0.76typ
HPWC2520	2.92max	2.7max	2.23max	1.30typ	1.52typ	0.51typ	2.00typ	2.54typ	1.02typ	1.27typ

HPWC1005 series Standard Specifications

Part No.	Inductance (nH)	Test Freq. L/Q	Q Min	Resistance(Ω) Max	SRF(GHz) Min	Irms(mA) Max	Tolerancet (±%)
HPWC1005N1N0□E00	1.0	0.2V/250MHz / 250MHz	16	0.045	12.70	1360	10 , 5 , ±0.1nH
HPWC1005N1N2□E00	1.2	0.2V/250MHz / 250MHz	10	0.140	10.40	640	10 , 5 , ±0.1nH
HPWC1005N1N3□E00	1.3	0.2V/250MHz / 250MHz	10	0.140	10.40	640	10 , 5 , ±0.1nH
HPWC1005N1N9□E00	1.9	0.2V/250MHz / 250MHz	16	0.070	11.30	1040	10 , 5 , ±0.1nH
HPWC1005N2N0□E00	2.0	0.2V/250MHz / 250MHz	16	0.070	11.10	1040	10 , 5 , ±0.1nH
HPWC1005N2N2□E00	2.2	0.2V/250MHz / 250MHz	19	0.070	10.80	960	10 , 5 , ±0.1nH
HPWC1005N2N4□E00	2.4	0.2V/250MHz / 250MHz	15	0.068	10.50	790	10 , 5 , ±0.1nH
HPWC1005N2N5□E00	2.5	0.2V/250MHz / 250MHz	13	0.150	10.40	640	10 , 5 , ±0.1nH
HPWC1005N2N7□E00	2.7	0.2V/250MHz / 250MHz	16	0.120	10.40	640	10 , 5 , ±0.1nH
HPWC1005N3N3□E00	3.3	0.2V/250MHz / 250MHz	19	0.066	7.00	840	10 , 5 , 3
HPWC1005N3N6□E00	3.6	0.2V/250MHz / 250MHz	19	0.066	6.80	840	10 , 5 , 3
HPWC1005N3N9□E00	3.9	0.2V/250MHz / 250MHz	19	0.066	6.00	840	10 , 5 , 3
HPWC1005N4N3□E00	4.3	0.2V/250MHz / 250MHz	18	0.091	6.00	700	10 , 5 , 3
HPWC1005N4N7□E00	4.7	0.2V/250MHz / 250MHz	15	0.130	4.77	640	10 , 5 , 3
HPWC1005N5N1□E00	5.1	0.2V/250MHz / 250MHz	20	0.083	4.80	800	10 , 5 , 3
HPWC1005N5N6□E00	5.6	0.2V/250MHz / 250MHz	20	0.083	4.80	760	10 , 5 , 3
HPWC1005N5N8□E00	5.8	0.2V/250MHz / 250MHz	20	0.083	4.80	760	10 , 5 , 3
HPWC1005N6N2□E00	6.2	0.2V/250MHz / 250MHz	20	0.083	4.80	760	10 , 5 , 3
HPWC1005N6N8□E00	6.8	0.2V/250MHz / 250MHz	20	0.083	4.80	680	10 , 5 , 3
HPWC1005N7N3□E00	7.3	0.2V/250MHz / 250MHz	20	0.120	4.80	680	10 , 5 , 3
HPWC1005N7N5□E00	7.5	0.2V/250MHz / 250MHz	22	0.100	4.80	680	10 , 5 , 3
HPWC1005N8N2□E00	8.2	0.2V/250MHz / 250MHz	22	0.100	4.40	680	10 , 5 , 3
HPWC1005N8N7□E00	8.7	0.2V/250MHz / 250MHz	18	0.200	4.10	480	10 , 5 , 3
HPWC1005N9N0□E00	9.0	0.2V/250MHz / 250MHz	22	0.100	4.16	680	10 , 5 , 3
HPWC1005N9N1□E00	9.1	0.2V/250MHz / 250MHz	22	0.100	4.16	680	10 , 5 , 3
HPWC1005N9N5□E00	9.5	0.2V/250MHz / 250MHz	18	0.200	4.00	480	10 , 5 , 3
HPWC1005N10N□E00	10.0	0.2V/250MHz / 250MHz	21	0.200	3.90	480	10 , 5 , 3 , 2
HPWC1005N11N□E00	11.0	0.2V/250MHz / 250MHz	24	0.120	3.68	640	10 , 5 , 3 , 2
HPWC1005N12N□E00	12.0	0.2V/250MHz / 250MHz	24	0.120	3.60	640	10 , 5 , 3 , 2
HPWC1005N13N□E00	13.0	0.2V/250MHz / 250MHz	24	0.210	3.45	440	10 , 5 , 3 , 2
HPWC1005N15N□E00	15.0	0.2V/250MHz / 250MHz	24	0.170	3.28	560	10 , 5 , 3 , 2
HPWC1005N16N□E00	16.0	0.2V/250MHz / 250MHz	24	0.220	3.10	560	10 , 5 , 3 , 2
HPWC1005N18N□E00	18.0	0.2V/250MHz / 250MHz	25	0.230	3.10	420	10 , 5 , 3 , 2
HPWC1005N19N□E00	19.0	0.2V/250MHz / 250MHz	24	0.200	3.04	480	10 , 5 , 3 , 2
HPWC1005N20N□E00	20.0	0.2V/250MHz / 250MHz	25	0.250	3.00	420	10 , 5 , 3 , 2
HPWC1005N22N□E00	22.0	0.2V/250MHz / 250MHz	25	0.300	2.80	400	10 , 5 , 3 , 2
HPWC1005N23N□E00	23.0	0.2V/250MHz / 250MHz	22	0.300	2.72	400	10 , 5 , 3 , 2
HPWC1005N24N□E00	24.0	0.2V/250MHz / 250MHz	25	0.300	2.70	400	10 , 5 , 3 , 2
HPWC1005N27N□E00	27.0	0.2V/250MHz / 250MHz	24	0.300	2.48	400	10 , 5 , 3 , 2
HPWC1005N30N□E00	30.0	0.2V/250MHz / 250MHz	25	0.350	2.35	400	10 , 5 , 3 , 2
HPWC1005N33N□E00	33.0	0.2V/250MHz / 250MHz	24	0.400	2.35	400	10 , 5 , 3 , 2

Note: When ordering, please specify Tolerance code. Tolerance □ : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

1.Operating temperature range － 40℃～ 125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

3.Test condition： Agilent E4982A

HPWC1005 series Standard Specifications

Part No.	Inductance (nH)	Test Freq. L/Q	Q Min	Resistance(Ω) Max	SRF(GHz) Min	Irms(mA) Max	Tolerance (±%)
HPWC1005N36N□E00	36.0	0.2V/250MHz / 250MHz	24	0.44	2.32	320	10 , 5 , 3 , 2
HPWC1005N39N□E00	39.0	0.2V/250MHz / 250MHz	25	0.55	2.10	200	10 , 5 , 3 , 2
HPWC1005N40N□E00	40.0	0.2V/250MHz / 250MHz	24	0.65	2.24	320	10 , 5 , 3 , 2
HPWC1005N43N□E00	43.0	0.2V/250MHz / 250MHz	25	0.81	2.03	100	10 , 5 , 3 , 2
HPWC1005N47N□E00	47.0	0.2V/250MHz / 250MHz	20	0.83	2.10	150	10 , 5 , 3 , 2
HPWC1005N51N□E00	51.0	0.2V/250MHz / 250MHz	25	0.82	1.75	100	10 , 5 , 3 , 2
HPWC1005N56N□E00	56.0	0.2V/250MHz / 250MHz	22	0.97	1.76	100	10 , 5 , 3 , 2
HPWC1005N68N□E00	68.0	0.2V/250MHz / 250MHz	22	1.12	1.62	100	10 , 5 , 3 , 2
HPWC1005N82N□E00	82.0	0.2V/250MHz / 250MHz	20	1.55	1.23	50	10 , 5 , 3 , 2
HPWC1005NR10□E00	100.0	0.2V/250MHz / 250MHz	20	2.00	1.16	30	10 , 5 , 3 , 2
HPWC1005NR18□E00	180.0	0.2V/100MHz / 100MHz	8	2.70	0.70	50	10 , 5 , 3 , 2
HPWC1005NR22□E00	220.0	0.2V/100MHz / 100MHz	8	4.00	0.70	50	10 , 5 , 3 , 2

HPWC1005-20 series Standard Specifications

Part No.	Inductance (nH)	Test Freq. L/Q	Q typ	Resistance (Ω) max	SRF(MHz) typ	Irms(mA) max	Tolerance (±%)
HPWC1005NR60□E20	600	0.2V/25MHz / 25MHz	12	3.78	440	130	2,3,5
HPWC1005NR68□E20	680	0.2V/25MHz / 25MHz	13	5.15	380	120	2,3,5

Note: When ordering, please specify Tolerance code. Tolerance : B=±0.1nH , S=±0.3nH , G=±2% , H=±3% , J=±5% , K=±10%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

3.Test condition: Agilent E4982A

HPWC1608 series Standard Specifications

Part No.	Inductance (nH)	Test Freq. L/Q	Q Min	DCR(Ω) Max	SRF(GHz) Min	Irms(mA) Max	Tolerance (±%)	Color coding
HPWC1608M1N6□E00	1.6	0.2V/250MHz / 250MHz	24	0.030	12.50	700	10 , 5 , ±0.1nH	Red
HPWC1608M1N8□E00	1.8	0.2V/250MHz / 250MHz	16	0.045	12.50	700	10 , 5 , ±0.1nH	Black
HPWC1608M2N2□E00	2.2	0.2V/250MHz / 250MHz	13	0.250	12.50	700	10 , 5 , ±0.1nH	Yellow
HPWC1608M3N3□E00	3.3	0.2V/250MHz / 250MHz	35	0.045	5.90	700	10 , 5 , 3	Blue
HPWC1608M3N6□E00	3.6	0.2V/250MHz / 250MHz	22	0.063	5.90	700	10 , 5 , 3 , 2	Red
HPWC1608M3N9□E00	3.9	0.2V/250MHz / 250MHz	22	0.080	6.90	700	10 , 5 , 3 , 2	Brown
HPWC1608M4N3□E00	4.3	0.2V/250MHz / 250MHz	22	0.063	5.90	700	10 , 5 , 3 , 2	Orange
HPWC1608M4N7□E00	4.7	0.2V/250MHz / 250MHz	20	0.116	5.80	700	10 , 5 , 3 , 2	Violet
HPWC1608M5N1□E00	5.1	0.2V/250MHz / 250MHz	20	0.140	5.70	700	10 , 5 , 3 , 2	Green
HPWC1608M5N6□E00	5.6	0.2V/250MHz / 250MHz	20	0.170	5.80	700	10 , 5 , 3 , 2	Yellow
HPWC1608M6N3□E00	6.3	0.2V/250MHz / 250MHz	20	0.140	5.70	700	10 , 5 , 3 , 2	White
HPWC1608M6N8□E00	6.8	0.2V/250MHz / 250MHz	27	0.080	5.80	700	10 , 5 , 3 , 2	Red
HPWC1608M7N5□E00	7.5	0.2V/250MHz / 250MHz	28	0.106	4.80	700	10 , 5 , 3 , 2	Brown
HPWC1608M8N2□E00	8.2	0.2V/250MHz / 250MHz	28	0.109	4.70	700	10 , 5 , 3 , 2	White
HPWC1608M8N7□E00	8.7	0.2V/250MHz / 250MHz	28	0.109	4.60	700	10 , 5 , 3 , 2	Yellow
HPWC1608M9N1□E00	9.1	0.2V/250MHz / 250MHz	28	0.120	4.80	700	10 , 5 , 3 , 2	Violet
HPWC1608M9N5□E00	9.5	0.2V/250MHz / 250MHz	28	0.135	5.40	700	10 , 5 , 3 , 2	Blue
HPWC1608M10N□E00	10.0	0.2V/250MHz / 250MHz	31	0.130	4.80	700	10 , 5 , 3 , 2	Orange
HPWC1608M11N□E00	11.0	0.2V/250MHz / 250MHz	33	0.086	4.00	700	10 , 5 , 3 , 2	Grey
HPWC1608M12N□E00	12.0	0.2V/250MHz / 250MHz	35	0.130	4.00	700	10 , 5 , 3 , 2	Yellow
HPWC1608M13N□E00	13.0	0.2V/250MHz / 250MHz	30	0.160	4.00	700	10 , 5 , 3 , 2	Black
HPWC1608M15N□E00	15.0	0.2V/250MHz / 250MHz	35	0.100	4.00	700	10 , 5 , 3 , 2	GRN
HPWC1608M16N□E00	16.0	0.2V/250MHz / 250MHz	34	0.104	3.30	700	10 , 5 , 3 , 2	White
HPWC1608M18N□E00	18.0	0.2V/250MHz / 250MHz	35	0.170	3.10	700	10 , 5 , 3 , 2	Blue
HPWC1608M20N□E00	20.0	0.2V/250MHz / 250MHz	38	0.190	3.00	700	10 , 5 , 3 , 2	Red
HPWC1608M22N□E00	22.0	0.2V/250MHz / 250MHz	38	0.190	3.00	700	10 , 5 , 3 , 2	Violet
HPWC1608M23N□E00	23.0	0.2V/250MHz / 250MHz	38	0.190	2.85	700	10 , 5 , 3 , 2	Orange
HPWC1608M24N□E00	24.0	0.2V/250MHz / 250MHz	27	0.135	2.65	700	10 , 5 , 3 , 2	Black
HPWC1608M27N□E00	27.0	0.2V/250MHz / 250MHz	40	0.140	2.80	600	10 , 5 , 3 , 2	Grey
HPWC1608M30N□E00	30.0	0.2V/250MHz / 250MHz	37	0.144	2.25	600	10 , 5 , 3 , 2	Brown
HPWC1608M33N□E00	33.0	0.2V/250MHz / 250MHz	40	0.220	2.30	600	10 , 5 , 3 , 2	White
HPWC1608M36N□E00	36.0	0.2V/250MHz / 250MHz	38	0.250	3.08	600	10 , 5 , 3 , 2	Red
HPWC1608M39N□E00	39.0	0.2V/250MHz / 250MHz	40	0.250	2.20	600	10 , 5 , 3 , 2	Black
HPWC1608M43N□E00	43.0	0.2V/250MHz / 250MHz	39	0.280	2.00	600	10 , 5 , 3 , 2	Orange
HPWC1608M47N□E00	47.0	0.2V/200MHz / 200MHz	38	0.280	2.00	600	10 , 5 , 3 , 2	Brown
HPWC1608M51N□E00	51.0	0.2V/200MHz / 200MHz	38	0.310	1.90	600	10 , 5 , 3 , 2	Brown
HPWC1608M56N□E00	56.0	0.2V/200MHz / 200MHz	38	0.310	1.90	600	10 , 5 , 3 , 2	Red
HPWC1608M68N□E00	68.0	0.2V/200MHz / 200MHz	37	0.340	1.70	600	10 , 5 , 3 , 2	Orange
HPWC1608M72N□E00	72.0	0.2V/150MHz / 150MHz	34	0.420	1.70	400	10 , 5 , 3 , 2	Yellow
HPWC1608M82N□E00	82.0	0.2V/150MHz / 150MHz	34	0.540	1.70	400	10 , 5 , 3 , 2	Green
HPWC1608M91N□E00	91.0	0.2V/150MHz / 150MHz	34	0.580	1.40	400	10 , 5 , 3 , 2	Black

Note: When ordering, please specify Tolerance code. Tolerance □ : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

HPWC1608 series Standard Specifications

Part No.	Inductance (nH)	Test Freq. L/Q	Q Min	DCR(Ω) Max	SRF(GHz) Min	Irms(mA) Max	Tolerance (±%)	Color coding
HPWC1608MR10□E00	100.0	0.2V/150MHz / 150MHz	34	0.580	1.40	400	10 , 5 , 3 , 2	Blue
HPWC1608MR11□E00	110.0	0.2V/150MHz / 150MHz	32	0.610	1.35	300	10 , 5 , 3 , 2	Violet
HPWC1608MR12□E00	120.0	0.2V/150MHz / 150MHz	32	0.750	1.30	300	10 , 5 , 3 , 2	Grey
HPWC1608MR15□E00	150.0	0.2V/150MHz / 150MHz	28	0.920	0.99	280	10 , 5 , 3 , 2	White
HPWC1608MR16□E00	160.0	0.2V/100MHz / 100MHz	25	1.250	0.99	240	10 , 5 , 3 , 2	Yellow
HPWC1608MR18□E00	180.0	0.2V/100MHz / 100MHz	25	1.250	0.99	240	10 , 5 , 3 , 2	Black
HPWC1608MR20□E00	200.0	0.2V/100MHz / 100MHz	25	1.520	0.90	200	10 , 5 , 3 , 2	Red
HPWC1608MR21□E00	210.0	0.2V/100MHz / 100MHz	27	2.060	0.90	200	10 , 5 , 3 , 2	Grey
HPWC1608MR22□E00	220.0	0.2V/100MHz / 100MHz	25	2.020	0.90	200	10 , 5 , 3 , 2	Brown
HPWC1608MR24□E00	240.0	0.2V/100MHz / 100MHz	25	2.200	0.90	200	10 , 5 , 3 , 2	Green
HPWC1608MR25□E00	250.0	0.2V/100MHz / 100MHz	25	3.000	0.82	120	10 , 5 , 3 , 2	Violet
HPWC1608MR27□E00	270.0	0.2V/100MHz / 100MHz	24	2.360	0.90	170	10 , 5 , 3 , 2	Red
HPWC1608MR30□E00	300.0	0.2V/100MHz / 100MHz	26	4.050	0.90	110	10 , 5 , 3 , 2	Brown
HPWC1608MR33□E00	330.0	0.2V/100MHz / 100MHz	25	3.400	0.90	100	10 , 5 , 3 , 2	Orange
HPWC1608MR39□E00	390.0	0.2V/100MHz / 100MHz	25	3.600	0.90	100	10 , 5 , 3 , 2	Yellow
HPWC1608MR47□E00	470.0	0.2V/100MHz / 100MHz	25	4.200	0.50	100	10 , 5 , 3 , 2	Green
HPWC1608MR56□E00	560.0	0.2V/100MHz / 100MHz	23	4.700	0.46	90	10 , 5 , 3 , 2	Blue

Note: When ordering, please specify Tolerance code. Tolerance □ : B=±0.1nH , G=±2% , H=±3% , J=±5% , K=±10%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

HPWC2012 series Standard Specifications

Part No.	Inductance (nH)	Test Freq. L/Q	Q Min	DCR(Ω) Max	SRF(GHz) Min	Irms(mA) Max	Tolerance (±%)	Color coding
HPWC2012M2N7□P00	2.7	0.2V/250MHz / 1500MHz	50	0.06	7.900	800	10 , 5 , 2	Yellow
HPWC2012M2N8□P00	2.8	0.2V/250MHz / 1500MHz	80	0.06	7.900	800	10 , 5 , 2	Grey
HPWC2012M3N0□P00	3.0	0.2V/250MHz / 1500MHz	65	0.06	7.900	800	10 , 5 , 2	White
HPWC2012M3N3□P00	3.3	0.2V/250MHz / 1500MHz	50	0.08	7.900	600	10 , 5 , 2	Black
HPWC2012M5N6□P00	5.6	0.2V/250MHz / 1000MHz	65	0.08	5.500	600	10 , 5 , 2	Orange
HPWC2012M6N8□P00	6.8	0.2V/250MHz / 1000MHz	50	0.11	5.500	600	10 , 5 , 2	Brown
HPWC2012M7N5□P00	7.5	0.2V/250MHz / 1000MHz	50	0.14	4.500	600	10 , 5 , 2	Green
HPWC2012M8N2□P00	8.2	0.2V/250MHz / 1000MHz	50	0.12	4.700	600	10 , 5 , 2	Red
HPWC2012M10N□P00	10.0	0.2V/250MHz / 500MHz	60	0.10	4.200	600	10 , 5 , 2	Blue
HPWC2012M12N□P00	12.0	0.2V/250MHz / 500MHz	50	0.15	4.000	600	10 , 5 , 2	Orange
HPWC2012M15N□P00	15.0	0.2V/250MHz / 500MHz	50	0.17	3.400	600	10 , 5 , 2	Yellow
HPWC2012M18N□P00	18.0	0.2V/250MHz / 500MHz	50	0.20	3.300	600	10 , 5 , 2	Green
HPWC2012M22N□P00	22.0	0.2V/250MHz / 500MHz	55	0.22	2.600	500	10 , 5 , 2	Blue
HPWC2012M24N□P00	24.0	0.2V/250MHz / 500MHz	50	0.22	2.000	500	10 , 5 , 2	Grey
HPWC2012M27N□P00	27.0	0.2V/250MHz / 500MHz	55	0.25	2.500	500	10 , 5 , 2	Violet
HPWC2012M33N□P00	33.0	0.2V/250MHz / 500MHz	60	0.27	2.050	500	10 , 5 , 2	Grey
HPWC2012M36N□P00	36.0	0.2V/250MHz / 500MHz	55	0.27	1.700	500	10 , 5 , 2	Orange
HPWC2012M39N□P00	39.0	0.2V/250MHz / 500MHz	60	0.29	2.000	500	10 , 5 , 2	White
HPWC2012M43N□P00	43.0	0.2V/200MHz / 500MHz	60	0.34	1.650	500	10 , 5 , 2	Yellow
HPWC2012M47N□P00	47.0	0.2V/200MHz / 500MHz	60	0.31	1.650	500	10 , 5 , 2	Black
HPWC2012M56N□P00	56.0	0.2V/200MHz / 500MHz	60	0.34	1.550	500	10 , 5 , 2	Brown
HPWC2012M68N□P00	68.0	0.2V/200MHz / 500MHz	60	0.38	1.450	500	10 , 5 , 2	Red
HPWC2012M82N□P00	82.0	0.2V/150MHz / 500MHz	65	0.42	1.300	400	10 , 5 , 2	Orange
HPWC2012M84N□P00	84.0	0.2V/150MHz / 500MHz	65	0.48	1.300	400	10 , 5 , 2	Orange
HPWC2012M91N□P00	91.0	0.2V/150MHz / 500MHz	65	0.48	1.200	400	10 , 5 , 2	Black
HPWC2012MR10□P00	100.0	0.2V/150MHz / 500MHz	65	0.46	1.200	400	10 , 5 , 2	Yellow
HPWC2012MR11□P00	110.0	0.2V/150MHz / 250MHz	50	0.48	1.000	400	10 , 5 , 2	Brown
HPWC2012MR12□P00	120.0	0.2V/150MHz / 250MHz	50	0.51	1.100	400	10 , 5 , 2	Green
HPWC2012MR15□P00	150.0	0.2V/100MHz / 250MHz	50	0.56	0.920	400	10 , 5 , 2	Blue
HPWC2012MR18□P00	180.0	0.2V/100MHz / 250MHz	50	0.64	0.870	400	10 , 5 , 2	Violet
HPWC2012MR20□P00	200.0	0.2V/100MHz / 250MHz	50	0.68	0.860	400	10 , 5 , 2	Red
HPWC2012MR22□P00	220.0	0.2V/100MHz / 250MHz	50	0.70	0.850	400	10 , 5 , 2	Grey
HPWC2012MR24□P00	240.0	0.2V/100MHz / 250MHz	44	1.00	0.690	350	10 , 5 , 2	Red
HPWC2012MR25□P00	250.0	0.2V/100MHz / 250MHz	45	1.20	0.660	350	10 , 5 , 2	Yellow
HPWC2012MR27□P00	270.0	0.2V/100MHz / 250MHz	48	1.00	0.650	350	10 , 5 , 2	White
HPWC2012MR30□P00	300.0	0.2V/100MHz / 250MHz	25	1.40	0.450	310	10 , 5 , 2	Orange
HPWC2012MR33□P00	330.0	0.2V/100MHz / 250MHz	48	1.40	0.600	310	10 , 5 , 2	Black
HPWC2012MR39□P00	390.0	0.2V/100MHz / 250MHz	48	1.50	0.560	290	10 , 5 , 2	Brown
HPWC2012MR43□P00	430.0	0.2V/50MHz / 100MHz	33	1.76	0.375	250	10 , 5 , 2	Green
HPWC2012MR47□P00	470.0	0.2V/50MHz / 100MHz	33	1.76	0.450	250	10 , 5 , 2	Violet
HPWC2012MR51□P00	510.0	0.2V/25MHz / 50MHz	23	1.90	0.340	230	10 , 5 , 2	Grey

Note: When ordering, please specify Tolerance code. Tolerance □ : G=±2% , J=±5% , K=±10%

1.Operating temperature range － 40℃～125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

HPWC2012 series Standard Specifications

Part No.	Ivductance (nH)	Test Freq. L/Q	Q Min	DCR(Ω) Max	SRF(GHz) Min	Irms(mA) Max	Tolerance (±%)	Color coding
HPWC2012MR56□P00	560.0	0.2V/25MHz / 50MHz	23	1.90	0.340	230	10 , 5 , 2	Orange
HPWC2012MR62□P00	620.0	0.2V/25MHz / 50MHz	23	2.20	0.220	210	10 , 5 , 2	Yellow
HPWC2012MR68□P00	680.0	0.2V/25MHz / 50MHz	23	2.20	0.188	190	10 , 5 , 2	Green
HPWC2012MR82□P00	820.0	0.2V/25MHz / 50MHz	23	2.35	0.215	180	10 , 5 , 2	Blue
HPWC2012M1R0□P00	1000.0	0.2V/25MHz / 50MHz	20	2.50	0.100	170	10 , 5 , 2	Grey
HPWC2012M1R2□P00	1200.0	0.2V/7.9MHz / 25MHz	18	2.50	0.100	170	10 , 5 , 2	White
HPWC2012M1R5□P00	1500.0	0.2V/7.9MHz / 25MHz	16	2.50	0.100	170	10 , 5 , 2	Black
HPWC2012M1R8□P00	1800.0	0.2V/7.9MHz / 7.9MHz	16	2.50	0.080	170	10 , 5 , 2	Orange
HPWC2012M2R2□P00	2200.0	0.2V/7.9MHz / 7.9MHz	16	3.90	0.065	140	10 , 5 , 2	Red
HPWC2012M3R3□P00	3300.0	0.2V/7.9MHz / 7.9MHz	15	4.40	0.040	90	10 , 5 , 2	Red
HPWC2012M4R7□P00	4700.0	0.2V/7.9MHz / 7.9MHz	15	6.40	0.040	90	10 , 5 , 2	Yellow

Note: When ordering, please specify Tolerance code. Tolerance □ : G=±2% , J=±5% , K=±10%

1.Operating temperature range －40℃～125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

HPWC2520 series Standard Specifications

Part No.	Inductance (nH)	Test Freq. L / Q	Q Min	DCR(Ω) Max	SRF(GHz) Min	Irms(mA) Max	Tolerance (±%)	Color coding 1st	2nd	3rd
HPWC2520M10N□P00	10	0.2V/50MHz / 500MHz	50	0.08	4.100	1000	2,5,10	Brown	Black	Black
HPWC2520M12N□P00	12	0.2V/50MHz / 500MHz	50	0.09	3.300	1000	2,5,10	Brown	Red	Black
HPWC2520M15N□P00	15	0.2V/50MHz / 500MHz	50	0.18	2.500	1000	2,5,10	Brown	Green	Black
HPWC2520M18N□P00	18	0.2V/50MHz / 350MHz	50	0.11	2.500	1000	2,5,10	Brown	Gray	Black
HPWC2520M22N□P00	22	0.2V/50MHz / 350MHz	55	0.12	2.400	1000	2,5,10	Red	Red	Black
HPWC2520M27N□P00	27	0.2V/50MHz / 350MHz	55	0.13	1.600	1000	2,5,10	Red	Violet	Black
HPWC2520M33N□P00	33	0.2V/50MHz / 350MHz	60	0.14	1.600	1000	2,5,10	Orange	Orange	Black
HPWC2520M39N□P00	39	0.2V/50MHz / 350MHz	60	0.15	1.500	1000	2,5,10	Orange	White	Black
HPWC2520M47N□P00	47	0.2V/50MHz / 350MHz	65	0.16	1.500	1000	2,5,10	Yellow	Violet	Black
HPWC2520M56N□P00	56	0.2V/50MHz / 350MHz	65	0.18	1.300	1000	2,5,10	Green	Blue	Black
HPWC2520M68N□P00	68	0.2V/50MHz / 350MHz	65	0.20	1.300	1000	2,5,10	Blue	Gray	Black
HPWC2520M82N□P00	82	0.2V/50MHz / 350MHz	60	0.22	1.000	1000	2,5,10	Gray	Red	Black
HPWC2520MR10□P00	100	0.2V/25MHz / 350MHz	60	0.56	1.000	650	2,5,10	Brown	Black	Brown
HPWC2520MR12□P00	120	0.2V/25MHz / 350MHz	60	0.63	0.950	650	2,5,10	Brown	Red	Brown
HPWC2520MR15□P00	150	0.2V/25MHz / 100MHz	45	0.70	0.850	580	2,5,10	Brown	Green	Brown
HPWC2520MR18□P00	180	0.2V/25MHz / 100MHz	45	0.77	0.750	620	2,5,10	Brown	Gray	Brown
HPWC2520MR22□P00	220	0.2V/25MHz / 100MHz	45	0.84	0.700	500	2,5,10	Red	Red	Brown
HPWC2520MR27□P00	270	0.2V/25MHz / 100MHz	45	0.91	0.600	500	2,5,10	Red	Violet	Brown
HPWC2520MR33□P00	330	0.2V/25MHz / 100MHz	45	1.05	0.570	450	2,5,10	Orange	Orange	Brown
HPWC2520MR39□P00	390	0.2V/25MHz / 100MHz	45	1.12	0.500	470	2,5,10	Orange	White	Brown
HPWC2520MR47□P00	470	0.2V/25MHz / 100MHz	45	1.19	0.450	470	2,5,10	Yellow	Violet	Brown
HPWC2520MR56□P00	560	0.2V/25MHz / 100MHz	45	1.33	0.415	400	2,5,10	Green	Blue	Brown
HPWC2520MR62□P00	620	0.2V/25MHz / 100MHz	45	1.40	0.375	300	2,5,10	Blue	Red	Brown
HPWC2520MR68□P00	680	0.2V/25MHz / 100MHz	45	1.47	0.375	400	2,5,10	Blue	Gray	Brown
HPWC2520MR75□P00	750	0.2V/25MHz / 100MHz	45	1.54	0.360	360	2,5,10	Violet	Green	Brown
HPWC2520MR82□P00	820	0.2V/25MHz / 100MHz	45	1.61	0.350	400	2,5,10	Gray	Red	Brown
HPWC2520MR91□P00	910	0.2V/25MHz / 50MHz	35	1.68	0.320	380	2,5,10	White	Brown	Brown
HPWC2520M1R0□P00	1000	0.2V/25MHz / 50MHz	35	1.75	0.290	370	2,5,10	Brown	Black	Red
HPWC2520M1R2□P00	1200	0.2V/7.9MHz / 50MHz	35	2.00	0.250	310	2,5,10	Brown	Red	Red
HPWC2520M1R5□P00	1500	0.2V/7.9MHz / 50MHz	28	2.23	0.200	330	2,5,10	Brown	Green	Red
HPWC2520M1R8□P00	1800	0.2V/7.9MHz / 50MHz	28	2.60	0.160	300	2,5,10	Brown	Gray	Red
HPWC2520M2R2□P00	2200	0.2V/7.9MHz / 50MHz	28	2.80	0.160	280	2,5,10	Red	Red	Red
HPWC2520M2R7□P00	2700	0.2V/7.9MHz / 25MHz	22	3.20	0.140	290	2,5,10	Red	Violet	Red
HPWC2520M3R3□P00	3300	0.2V/7.9MHz / 25MHz	22	3.40	0.110	290	2,5,10	Orange	Orange	Red
HPWC2520M3R9□P00	3900	0.2V/7.9MHz / 25MHz	20	3.60	0.100	260	2,5,10	Orange	White	Red
HPWC2520M4R7□P00	4700	0.2V/7.9MHz / 7.9MHz	18	4.00	0.032	260	2,5,10	Yellow	Violet	Red
HPWC2520M5R6□P00	5600	0.2V/7.9MHz / 7.9MHz	16	5.70	0.020	240	2,5,10	Green	Blue	Red
HPWC2520M6R8□P00	6800	0.2V/7.9MHz / 7.9MHz	18	7.70	0.040	200	2,5,10	Blue	Gray	Red
HPWC2520M8R2□P00	8200	0.2V/7.9MHz / 7.9MHz	18	10.70	0.025	170	2,5,10	Gray	Red	Red
HPWC2520M100□P00	10000	0.2V/7.9MHz / 7.9MHz	18	12.70	0.025	100	2,5,10	Brown	Black	Orange

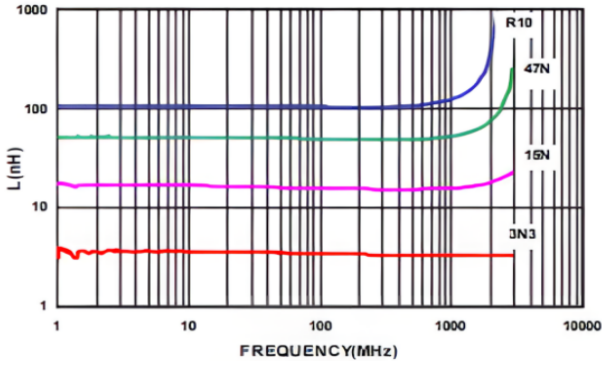
Note: When ordering, please specify Tolerance code. Tolerance □ : G=±2% , J=±5% , K=±10%

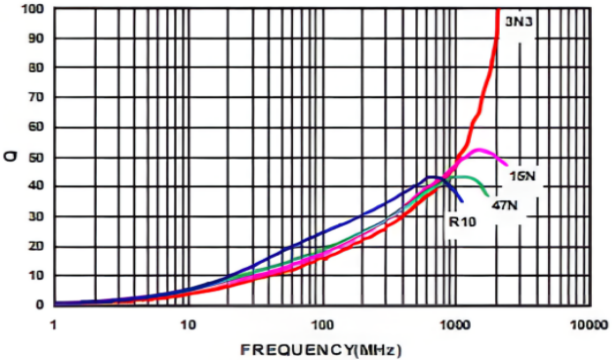
1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

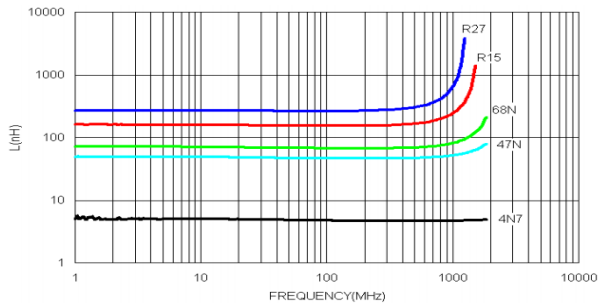
Product Characteristic Curve

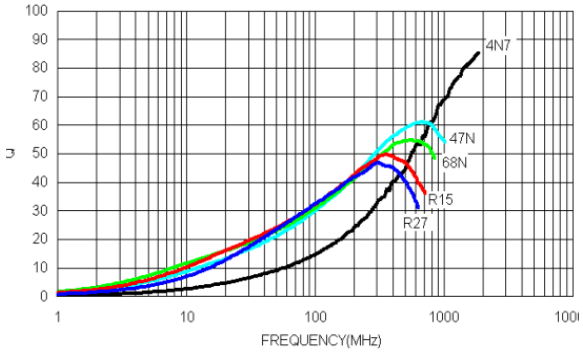
HPWC1005



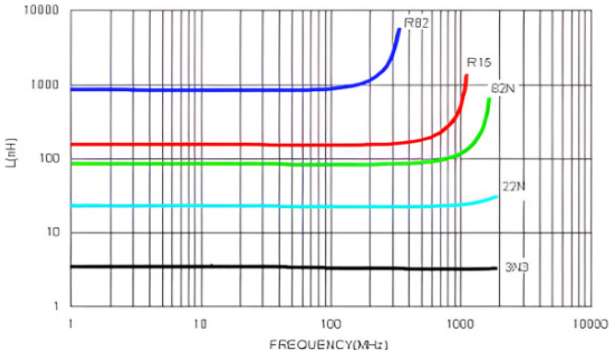


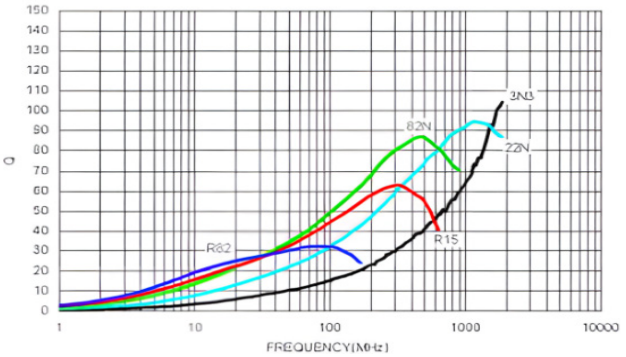
HPWC1608



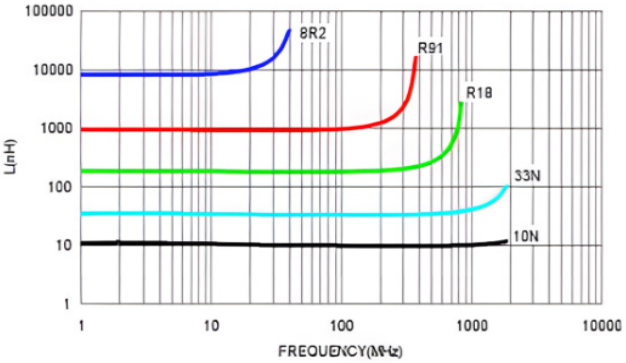


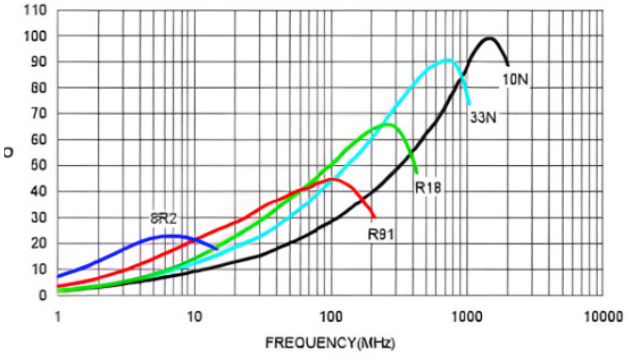
HPWC2012





HPWC2520





Packaging Specifications

Fig.1

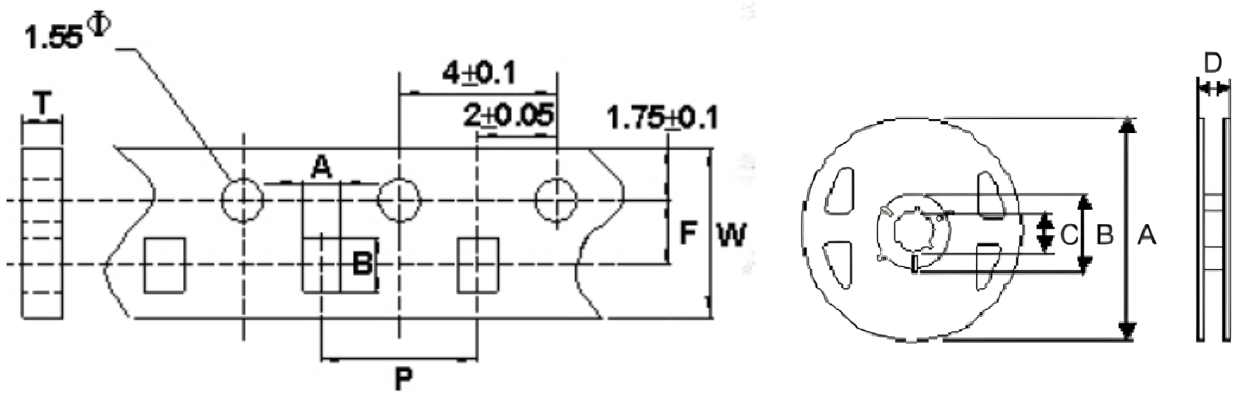
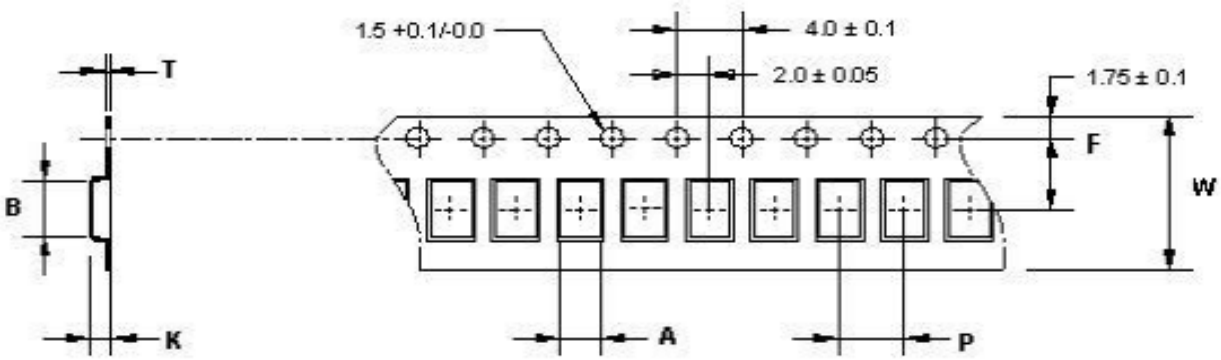


Fig.2



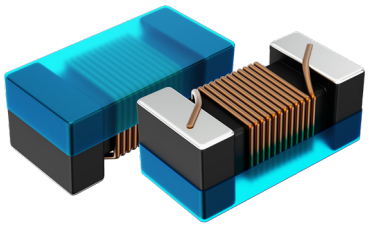
Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS/REEL	fig.
	A	B	T	W	P	F	K	A	B	C	D		
HPWC1005	0.67	1.2	0.75	8	2	3.5	-	180	60	13	12.2	4000	1
HPWC1608	1.25	1.85	1.1	8	4	3.5	-	180	60	13	12.2	4000	1
HPWC2012	1.85	2.45	0.23	8	4	3.5	1.5	180	60	13	12.2	2000	2
HPWC2520	2.73	2.9	0.25	8	4	3.5	2.34	180	60	13	12.2	2000	2

ISO9001 / ISO14001 / IATF16949

Automotive
AEC-Q200

HNWC SERIES



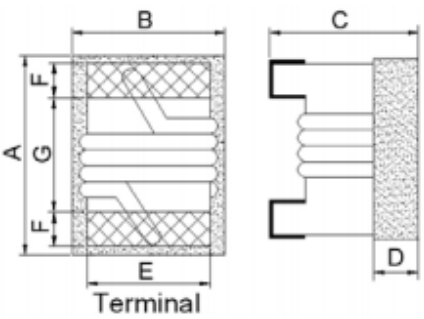
- RoHS Compliant
- Ferrite body and wire wound construction provide high SRFs
- Exceptional Q values even at high frequencies
- Highest possible SRFs as well as excellent Q values
- The non-magnetic coil form assures utmost thermal stability, predictability and batch consistency

ORDERING CODE

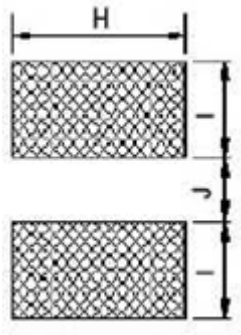
HNWC	1608	N	10N	J	P	00

Type	Dimensions	Internal code	Inductance	Tolerance	Packaging	Tail code
	1005	N：No dot color	1N0:1.0nH	B：±0.1nH	P：plastic tape	
	1608	M：Dot color	10N:10.0NH	C：±0.2nH	E：paper tape	
	2012		R10:100.0NH	S：±0.3nH		
	2520			G：±2%		
				H：±3%		
				J：±5%		
				K：±10%		

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A	B	C	D	E	F	G	H	I	J
HNWC1005	1.19max	0.7max	0.66max	0.25	0.51	0.23	0.56	0.66	0.36	0.46
HNWC1608	1.6±0.2	1.12±0.1	0.9±0.2	0.50	0.76	0.33	0.86	1.02	0.64	0.64
HNWC1608-01	1.6±0.2	1.12±0.1	0.9±0.2	0.50	0.76	0.33	0.86	1.02	0.64	0.64
HNWC2012	2.4max	1.72max	1.52max	0.7	1.27	0.45	1.02	1.78	1.02	0.76
HNWC2012-01	2.4max	1.72max	1.52max	0.7	1.27	0.45	1.02	1.78	1.02	0.76
HNWC2520	2.92max	2.70max	2.23max	0.7	2.00	0.5	1.35	2.54	1.02	1.27
HNWC3225	3.50max	2.90max	2.60max	0.7	2.10	0.5	2.00	2.54	1.02	1.78

HNWC1005 series Standard Specifications

Part No.	Inductance (uH)	Test Freq. L / Q	Q Min	DCR(Ω) Max	SRF(MHz) Min	Irms(mA) Max	Tolerance (±%)
HNWC1005N18N□E00	0.018	0.2V/100MHz / 100MHz	10	0.055	2600	1600	5,10
HNWC1005N20N□E00	0.020	0.2V/100MHz / 100MHz	10	0.050	2600	1600	5,10
HNWC1005N22N□E00	0.022	0.2V/100MHz / 100MHz	10	0.072	2500	1300	5,10
HNWC1005N33N□E00	0.033	0.2V/100MHz / 100MHz	10	0.060	2300	1400	5,10
HNWC1005N36N□E00	0.036	0.2V/100MHz / 100MHz	10	0.092	2300	1000	5,10
HNWC1005N39N□E00	0.039	0.2V/100MHz / 100MHz	10	0.150	2200	830	5,10
HNWC1005N51N□E00	0.051	0.2V/100MHz / 100MHz	10	0.070	1930	1100	5,10
HNWC1005N56N□E00	0.056	0.2V/100MHz / 100MHz	10	0.125	1900	900	5,10
HNWC1005N70N□E00	0.070	0.2V/100MHz / 100MHz	10	0.130	1900	900	5,10
HNWC1005N72N□E00	0.072	0.2V/100MHz / 100MHz	10	0.100	1650	900	5,10
HNWC1005N77N□E00	0.077	0.2V/100MHz / 100MHz	10	0.190	2000	750	5,10
HNWC1005N78N□E00	0.078	0.2V/100MHz / 100MHz	10	0.190	1600	850	5,10
HNWC1005NR10□E00	0.100	0.2V/100MHz / 100MHz	8	0.160	1100	1000	5,10
HNWC1005NR14□E00	0.140	0.2V/50MHz / 50MHz	11	0.260	1200	540	5,10
HNWC1005NR16□E00	0.160	0.2V/50MHz / 50MHz	11	0.330	1150	560	5,10
HNWC1005NR18□E00	0.180	0.2V/50MHz / 50MHz	11	0.330	1150	560	5,10
HNWC1005NR20□E00	0.200	0.2V/50MHz / 50MHz	11	0.440	1000	400	5,10
HNWC1005NR22□E00	0.220	0.2V/25MHz / 25MHz	11	0.500	900	400	5,10
HNWC1005NR25□E00	0.250	0.2V/25MHz / 25MHz	11	0.360	900	520	5,10
HNWC1005NR27□E00	0.270	0.2V/25MHz / 25MHz	11	0.550	860	360	5,10
HNWC1005NR30□E00	0.300	0.2V/25MHz / 25MHz	11	0.410	860	420	5,10
HNWC1005NR33□E00	0.330	0.2V/7.9MHz / 7.9MHz	11	0.680	820	350	5,10
HNWC1005NR36□E00	0.360	0.2V/7.9MHz / 7.9MHz	11	0.580	810	360	5,10
HNWC1005NR39□E00	0.390	0.2V/7.9MHz / 7.9MHz	11	0.890	760	300	5,10
HNWC1005NR42□E00	0.420	0.2V/7.9MHz / 7.9MHz	11	1.100	700	340	5,10
HNWC1005NR47□E00	0.470	0.2V/7.9MHz / 7.9MHz	11	0.730	650	310	5,10
HNWC1005NR56□E00	0.560	0.2V/7.9MHz / 7.9MHz	11	1.100	600	200	5,10
HNWC1005N1R0□E00	1.000	0.2V/7.9MHz / 7.9MHz	10	1.700	400	200	5,10
HNWC1005N2R2□E00	2.200	0.2V/7.9MHz / 7.9MHz	10	2.800	130	200	5,10
HNWC1005N4R7□E00	4.700	0.2V/7.9MHz / 7.9MHz	10	4.000	50	180	5,10

Note: When ordering, please specify Tolerance code. Tolerance □ : J=±5% , K=±10%,M±20%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

HNWC1608 series Standard Specifications

Part No.	Inductance (uH)	Test Freq. L/Q	Q Typ	DCR(Ω) Max	SRF(MHz) Min	Irms(mA) Max	Tolerance (±%)	Color coding
HNWC1608M47N□P00	0.047	0.2V/7.9MHz/7.9MHz	17	0.075	1700	1500	5,10,20	black
HNWC1608M72N□P00	0.072	0.2V/7.9MHz/7.9MHz	17	0.120	1700	1500	5,10,20	Brown
HNWC1608MR10□P00	0.100	0.2V/7.9MHz/7.9MHz	17	0.130	1650	1500	5,10,20	red
HNWC1608MR12□P00	0.120	0.2V/7.9MHz/7.9MHz	17	0.150	1350	1500	5,10,20	orange
HNWC1608MR15□P00	0.150	0.2V/7.9MHz/7.9MHz	17	0.150	1350	1450	5,10,20	yellow
HNWC1608MR24□P00	0.240	0.2V/7.9MHz/7.9MHz	17	0.190	1050	1300	5,10,20	Violet
HNWC1608MR27□P00	0.270	0.2V/7.9MHz/7.9MHz	17	0.300	1050	1050	5,10,20	gray
HNWC1608MR33□P00	0.330	0.2V/7.9MHz/7.9MHz	17	0.460	850	1200	5,10,20	white
HNWC1608MR39□P00	0.390	0.2V/7.9MHz/7.9MHz	17	0.510	810	1200	5,10,20	black
HNWC1608MR47□P00	0.470	0.2V/7.9MHz/7.9MHz	17	0.620	720	1050	5,10,20	Brown
HNWC1608MR56□P00	0.560	0.2V/7.9MHz/7.9MHz	17	0.440	600	850	5,10,20	red
HNWC1608MR68□P00	0.680	0.2V/7.9MHz/7.9MHz	17	0.520	600	850	5,10,20	orange
HNWC1608MR78□P00	0.780	0.2V/7.9MHz/7.9MHz	17	0.830	460	850	5,10,20	yellow
HNWC1608MR82□P00	0.820	0.2V/7.9MHz/7.9MHz	17	0.690	480	750	5,10,20	green
HNWC1608MR91□P00	0.910	0.2V/7.9MHz/7.9MHz	17	0.760	330	670	5,10,20	black
HNWC1608M1R0□P00	1.000	0.2V/7.9MHz/7.9MHz	18	0.810	310	600	5,10,20	blue
HNWC1608M1R2□P00	1.200	0.2V/7.9MHz/7.9MHz	17	0.870	270	550	5,10,20	Violet
HNWC1608M1R5□P00	1.500	0.2V/7.9MHz/7.9MHz	17	1.060	270	540	5,10,20	gray
HNWC1608M1R8□P00	1.800	0.2V/7.9MHz/7.9MHz	17	1.100	230	520	5,10,20	white
HNWC1608M2R2□P00	2.200	0.2V/7.9MHz/7.9MHz	17	1.200	140	500	5,10,20	black
HNWC1608M2R7□P00	2.700	0.2V/7.9MHz/7.9MHz	17	1.500	105	480	5,10,20	Brown
HNWC1608M3R3□P00	3.300	0.2V/7.9MHz/7.9MHz	17	1.500	84	440	5,10,20	red
HNWC1608M3R9□P00	3.900	0.2V/7.9MHz/7.9MHz	17	1.600	80	430	5,10,20	orange
HNWC1608M4R7□P00	4.700	0.2V/7.9MHz/7.9MHz	18	2.100	69	420	5,10,20	yellow
HNWC1608M5R6□P00	5.600	0.2V/7.9MHz/7.9MHz	18	2.600	65	400	5,10,20	green
HNWC1608M6R8□P00	6.800	0.2V/7.9MHz/7.9MHz	19	3.100	55	400	5,10,20	blue
HNWC1608M7R8□P00	7.800	0.2V/7.9MHz/7.9MHz	17	3.500	47	400	5,10,20	Violet
HNWC1608M8R2□P00	8.200	0.2V/7.9MHz/7.9MHz	17	3.800	42	400	5,10,20	gray
HNWC1608M100□P00	10.000	0.2V/7.9MHz/7.9MHz	19	4.800	40	300	5,10,20	white

Note: When ordering, please specify Tolerance code. Tolerance □ : J=±5% , K=±10%,M±20%

1.Operating temperature range － 40℃～125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

HNWC1608-01 series Standard Specifications

Part No.	Inductance (μH)	Test Freq. L/Q	Q Typ	DCR(Ω) ±30%	SRF(MHz) Typ	Irms(mA) Typ	Tolerance (±%)	Color coding
HNWC1608MR27□P01	0.27	0.2V/7.9MHz/7.9MHz	13	0.26	900	820	5,10,20	Green
HNWC1608MR47□P01	0.47	0.2V/7.9MHz/7.9MHz	13	0.26	900	800	5,10,20	Blue
HNWC1608MR68□P01	0.68	0.2V/7.9MHz/7.9MHz	13	0.27	650	800	5,10,20	Violet
HNWC1608MR78□P01	0.78	0.2V/7.9MHz/7.9MHz	16	0.28	410	800	5,10,20	Grey
HNWC1608M1R0□P01	1.00	0.2V/7.9MHz/7.9MHz	16	0.36	400	700	5,10,20	Black
HNWC1608M1R2□P01	1.20	0.2V/7.9MHz/7.9MHz	16	0.36	240	700	5,10,20	White
HNWC1608M1R5□P01	1.50	0.2V/7.9MHz/7.9MHz	16	0.40	160	600	5,10,20	Brown
HNWC1608M1R8□P01	1.80	0.2V/7.9MHz/7.9MHz	16	0.43	121	580	5,10,20	Red
HNWC1608M2R2□P01	2.20	0.2V/7.9MHz/7.9MHz	16	0.56	82	600	5,10,20	Orange
HNWC1608M2R7□P01	2.70	0.2V/7.9MHz/7.9MHz	16	0.62	72	500	5,10,20	Yellow
HNWC1608M3R3□P01	3.30	0.2V/7.9MHz/7.9MHz	16	0.70	66	500	5,10,20	Green
HNWC1608M3R9□P01	3.90	0.2V/7.9MHz/7.9MHz	16	0.83	61	460	5,10,20	Blue
HNWC1608M4R7□P01	4.70	0.2V/7.9MHz/7.9MHz	15	0.74	55	470	5,10,20	Violet
HNWC1608M5R6□P01	5.60	0.2V/7.9MHz/7.9MHz	16	1.10	47	380	5,10,20	Grey
HNWC1608M6R8□P01	6.80	0.2V/7.9MHz/7.9MHz	15	1.50	43	340	5,10,20	White
HNWC1608M8R2□P01	8.20	0.2V/7.9MHz/7.9MHz	16	1.68	40	300	5,10,20	Black
HNWC1608M100□P01	10.00	0.2V/2.5MHz/2.5MHz	15	1.85	35	280	5,10,20	Brown
HNWC1608M120□P01	12.00	0.2V/2.5MHz/2.5MHz	14	2.28	32	260	5,10,20	Red
HNWC1608M150□P01	15.00	0.2V/2.5MHz/2.5MHz	15	2.80	29	240	5,10,20	Orange
HNWC1608M180□P01	18.00	0.2V/2.5MHz/2.5MHz	14	2.90	28	220	5,10,20	Yellow
HNWC1608M220□P01	22.00	0.2V/2.5MHz/2.5MHz	15	3.61	24	200	5,10,20	Green
HNWC1608M270□P01	27.00	0.2V/2.5MHz/2.5MHz	14	5.20	20	140	5,10,20	Blue
HNWC1608M330□P01	33.00	0.2V/2.5MHz/2.5MHz	14	6.60	15	120	5,10,20	Violet
HNWC1608M470□P01	47.00	0.2V/2.5MHz/2.5MHz	12	11.20	11	110	5,10,20	Grey

Note: When ordering, please specify Tolerance code. Tolerance □ : J=±5% , K=±10%,M±20%

1.Operating temperature range － 40℃～ 125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

HNWC2012 series Standard Specifications

Part No.	Inductance (μH)	Test Freq. L/Q	Q Typ	DCR (Ω)Max	SRF(MHz) Min	Irms(mA) min	Tolerance (±%)	Color coding
HNWC2012M78N□P00	0.078	0.2V/7.9MHz/7.9MHz	19	0.06	1440	2000	5,10,20	black
HNWC2012M90N□P00	0.090	0.2V/7.9MHz/7.9MHz	19	0.07	1200	2000	5,10,20	red
HNWC2012MR11□P00	0.110	0.2V/7.9MHz/7.9MHz	19	0.07	1200	2000	5,10,20	Brown
HNWC2012MR47□P00	0.470	0.2V/7.9MHz/7.9MHz	19	0.40	480	800	5,10,20	red
HNWC2012MR56□P00	0.560	0.2V/7.9MHz/7.9MHz	35	0.40	480	800	5,10,20	yellow
HNWC2012MR68□P00	0.680	0.2V/7.9MHz/7.9MHz	20	0.40	480	800	5,10,20	orange
HNWC2012MR91□P00	0.910	0.2V/7.9MHz/7.9MHz	20	0.69	400	700	5,10,20	yellow
HNWC2012M1R0□P00	1.000	0.2V/7.9MHz/7.9MHz	20	0.69	400	700	5,10,20	yellow
HNWC2012M1R2□P00	1.200	0.2V/7.9MHz/7.9MHz	20	0.83	330	700	5,10,20	red
HNWC2012M1R5□P00	1.500	0.2V/7.9MHz/7.9MHz	20	0.83	330	700	5,10,20	green
HNWC2012M1R8□P00	1.800	0.2V/7.9MHz/7.9MHz	20	1.00	300	650	5,10,20	blue
HNWC2012M2R2□P00	2.200	0.2V/7.9MHz/7.9MHz	20	1.10	200	650	5,10,20	Violet
HNWC2012M2R7□P00	2.700	0.2V/7.9MHz/7.9MHz	23	1.25	200	580	5,10,20	gray
HNWC2012M3R3□P00	3.300	0.2V/7.9MHz/7.9MHz	23	1.45	160	540	5,10,20	white
HNWC2012M3R9□P00	3.900	0.2V/7.9MHz/7.9MHz	23	1.50	90	540	5,10,20	black
HNWC2012M4R7□P00	4.700	0.2V/7.9MHz/7.9MHz	20	1.50	70	530	5,10,20	Brown
HNWC2012M5R6□P00	5.600	0.2V/7.9MHz/7.9MHz	20	1.70	65	500	5,10,20	red
HNWC2012M6R8□P00	6.800	0.2V/7.9MHz/7.9MHz	20	1.95	45	470	5,10,20	orange
HNWC2012M8R2□P00	8.200	0.2V/2.5MHz/2.5MHz	16	2.10	45	430	5,10,20	yellow
HNWC2012M100□P00	10.000	0.2V/2.5MHz/2.5MHz	16	2.40	40	400	5,10,20	green
HNWC2012M120□P00	12.000	0.2V/2.5MHz/2.5MHz	16	3.20	38	360	5,10,20	red
HNWC2012M150□P00	15.000	0.2V/2.5MHz/2.5MHz	16	3.55	25	300	5,10,20	blue
HNWC2012M180□P00	18.000	0.2V/2.5MHz/2.5MHz	16	4.90	25	250	5,10,20	orange
HNWC2012M220□P00	22.000	0.2V/2.5MHz/2.5MHz	16	5.45	20	180	5,10,20	Violet
HNWC2012M270□P00	27.000	0.2V/2.5MHz/2.5MHz	16	7.80	19	180	5,10,20	gray
HNWC2012M330□P00	33.000	0.2V/2.5MHz/2.5MHz	16	9.50	16	160	5,10,20	white
HNWC2012M470□P00	47.000	0.2V/2.5MHz/2.5MHz	16	14.50	15	160	5,10,20	Brown

Note: When ordering, please specify Tolerance code. Tolerance □ : J=±5% , K=±10%,M±20%

1.Operating temperature range － 40℃～ 125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

HNWC2012-01 series Standard Specifications

Part No.	Inductance (μH)	Test Freq. L/Q	Q Typ	SRF(MHz) Typ	DCR(Ω) ±30%	Irms(mA) Typ	Tolerance (±%)	Color coding
HNWC2012M1R0□P01	1.0	0.2v/7.9MHz/7.9MHz	18	100	0.10	800	10,20	Black
HNWC2012M2R2□P01	2.2	0.2v/7.9MHz/7.9MHz	18	70	0.24	550	10,20	Red
HNWC2012M3R3□P01	3.3	0.2v/7.9MHz/7.9MHz	18	55	0.30	450	10,20	Orange
HNWC2012M4R7□P01	4.7	0.2v/7.9MHz/7.9MHz	18	50	0.47	600	10,20	Yellow
HNWC2012M6R8□P01	6.8	0.2v/7.9MHz/7.9MHz	18	60	0.75	290	10,20	Green
HNWC2012M100□P01	10.0	0.2v/2.5MHz/2.5MHz	18	25	0.90	290	10,20	Blue
HNWC2012M150□P01	15.0	0.2v/2.5MHz/2.5MHz	18	25	1.60	230	10,20	Violet
HNWC2012M220□P01	22.0	0.2v/2.5MHz/2.5MHz	18	20	1.76	340	10,20	Grey
HNWC2012M330□P01	33.0	0.2v/2.5MHz/2.5MHz	17	15	2.60	120	10,20	White
HNWC2012M470□P01	47.0	0.2v/2.5MHz/2.5MHz	17	11	3.90	95	10,20	Black
HNWC2012M680□P01	68.0	0.2v/2.5MHz/2.5MHz	17	11	5.50	95	10,20	Brown
HNWC2012M101□P01	100.0	0.2v/2.5MHz/2.5MHz	12	9	9.00	70	10,20	Red

Note: When ordering, please specify Tolerance code. Tolerance □ : K=±10% , M=±20%

1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

HNWC2520 series Standard Specifications

Part No.	Inductance (μH)	Test Freq. L/Q	Q (min)	DCR(max) Ω	SRF(min) MHz	Irms(max) (mA)	Tolcerance (±%)	Color coding		
HNWC2520MR56□P00	0.56	0.2V/7.9MHz/7.9MHz	12	0.62	230	700	10,20	Green	Blue	Brown
HNWC2520MR68□P00	0.68	0.2V/7.9MHz/7.9MHz	12	0.62	230	700	10,20	Blue	Gray	Brown
HNWC2520MR82□P00	0.82	0.2V/7.9MHz/7.9MHz	12	0.62	230	700	10,20	Gray	Red	Brown
HNWC2520M1R0□P00	1.00	0.2V/7.9MHz/7.9MHz	18	0.62	230	700	10,20	Brown	Black	Red
HNWC2520M1R2□P00	1.20	0.2V/7.9MHz/7.9MHz	18	0.68	210	650	10,20	Brown	Red	Red
HNWC2520M1R5□P00	1.50	0.2V/7.9MHz/7.9MHz	18	0.76	190	630	10,20	Brown	Green	Red
HNWC2520M1R8□P00	1.80	0.2V/7.9MHz/7.9MHz	18	0.84	170	600	10,20	Brown	Gray	Red
HNWC2520M2R2□P00	2.20	0.2V/7.9MHz/7.9MHz	18	1.10	150	520	10,20	Red	Red	Red
HNWC2520M2R7□P00	2.70	0.2V/7.9MHz/7.9MHz	18	1.28	135	490	10,20	Red	Violet	Red
HNWC2520M3R3□P00	3.30	0.2V/7.9MHz/7.9MHz	18	1.46	120	450	10,20	Orange	Orange	Red
HNWC2520M3R9□P00	3.90	0.2V/7.9MHz/7.9MHz	18	1.56	105	420	10,20	Orange	White	Red
HNWC2520M4R7□P00	4.70	0.2V/7.9MHz/7.9MHz	18	2.00	90	400	10,20	Yellow	Violet	Red
HNWC2520M5R6□P00	5.60	0.2V/7.9MHz/7.9MHz	15	1.80	80	380	10,20	Green	Blue	Red
HNWC2520M6R8□P00	6.80	0.2V/7.9MHz/7.9MHz	15	2.00	70	360	10,20	Blue	Gray	Red
HNWC2520M8R2□P00	8.20	0.2V/7.9MHz/7.9MHz	15	2.65	65	330	10,20	Gray	Red	Red
HNWC2520M100□P00	10.00	0.2V/2.5MHz/2.5MHz	12	2.95	60	300	10,20	Brown	Black	Orange
HNWC2520M180□P00	18.00	0.2V/2.5MHz/2.5MHz	12	4.00	26	160	10,20	Brown	Gray	Orange
HNWC2520M220□P00	22.00	0.2V/2.5MHz/2.5MHz	12	6.14	22	270	10,20	Red	Red	Orange
HNWC2520M300□P00	30.00	0.2V/2.5MHz/2.5MHz	10	6.80	12	200	10,20	Orange	Black	Orange
HNWC2520M330□P00	33.00	0.2V/2.5MHz/2.5MHz	10	7.00	12	200	10,20	Orange	Orange	Orange
HNWC2520M390□P00	39.00	0.2V/2.5MHz/2.5MHz	10	10.00	16	170	10,20	Orange	White	Orange
HNWC2520M470□P00	47.00	0.2V/2.5MHz/2.5MHz	10	10.70	10	160	10,20	Yellow	Violet	Orange
HNWC2520M560□P00	56.00	0.2V/2.5MHz/2.5MHz	10	12.00	8	170	10,20	Green	Blue	Orange
HNWC2520M680□P00	68.00	0.2V/2.5MHz/2.5MHz	10	13.50	6	145	10,20	Blue	Gray	Orange
HNWC2520M820□P00	82.00	0.2V/2.5MHz/2.5MHz	8	20.00	6	100	10,20	Gray	Red	Orange
HNWC2520M101□P00	100.00	0.2V/1MHz/1MHz	8	20.50	4	120	10,20	Brown	Black	Yellow

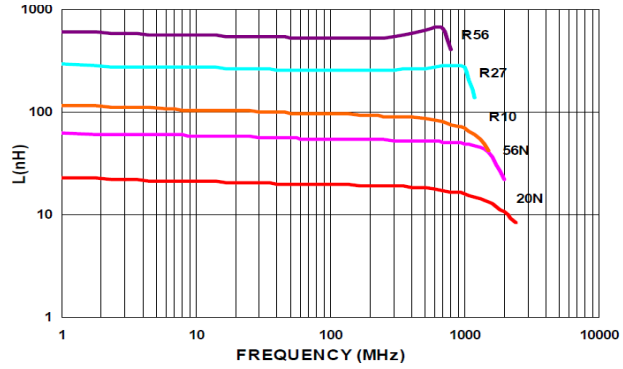
Note: When ordering, please specify Tolerance code. Tolerance □ : K=±10% , M=±20%

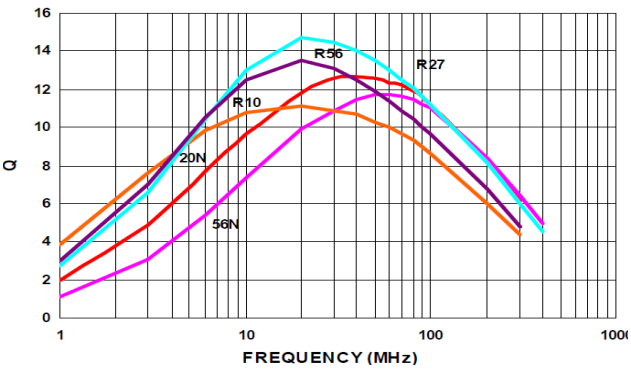
1.Operating temperature range — 40℃ ~ 125℃ (Including self - temperature rise)

2.Irms for a 15℃ temperature rise from 25℃ ambient with current

Product Characteristic Curve

HNWC1005





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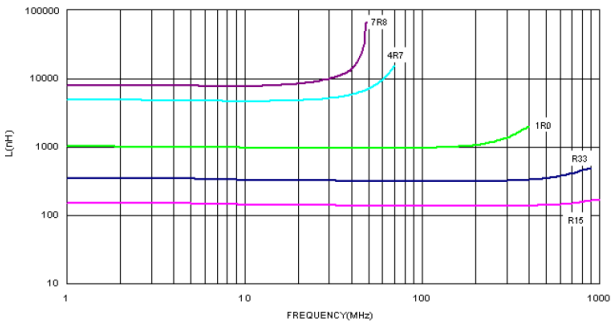
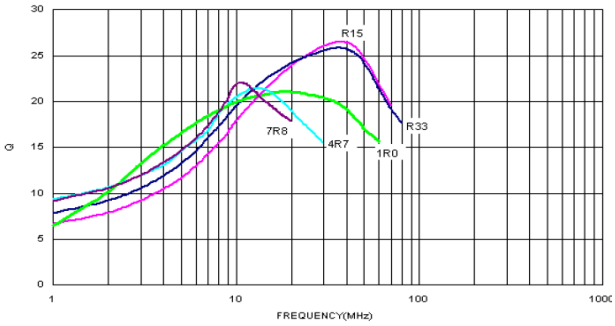
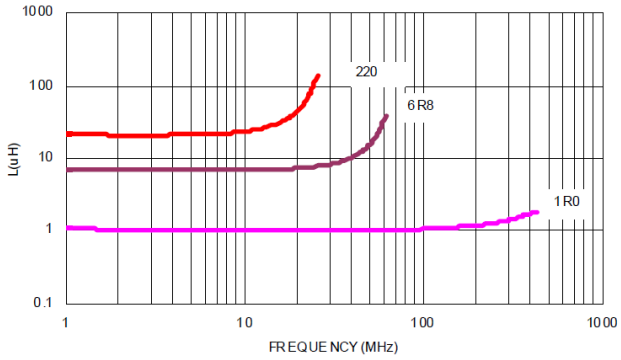
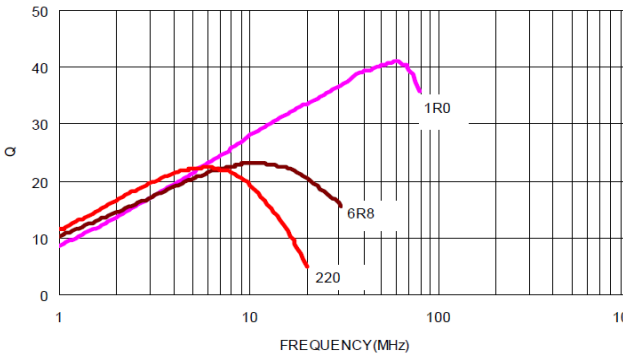




HNWC2012





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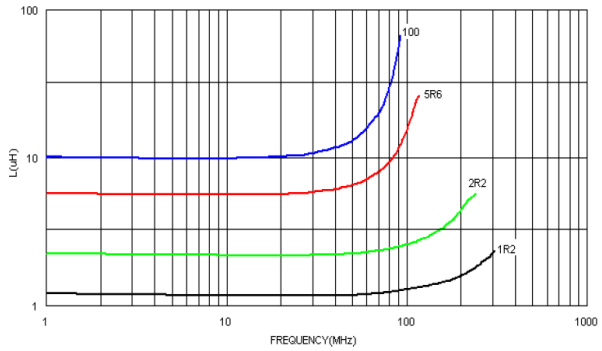
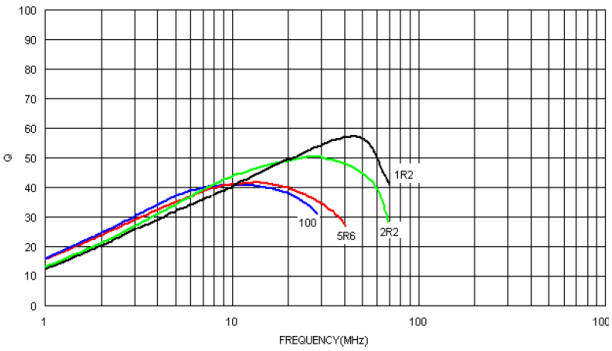




Packaging Specifications

Fig.1

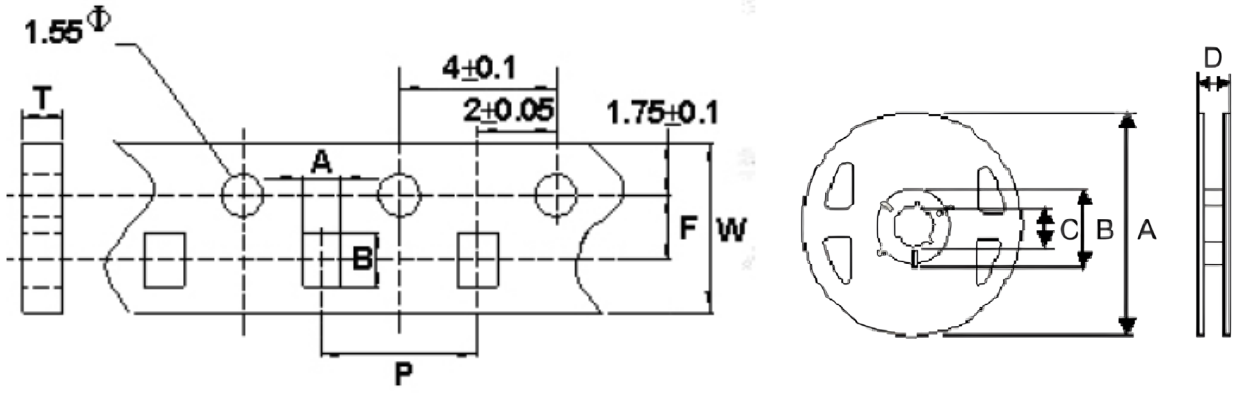
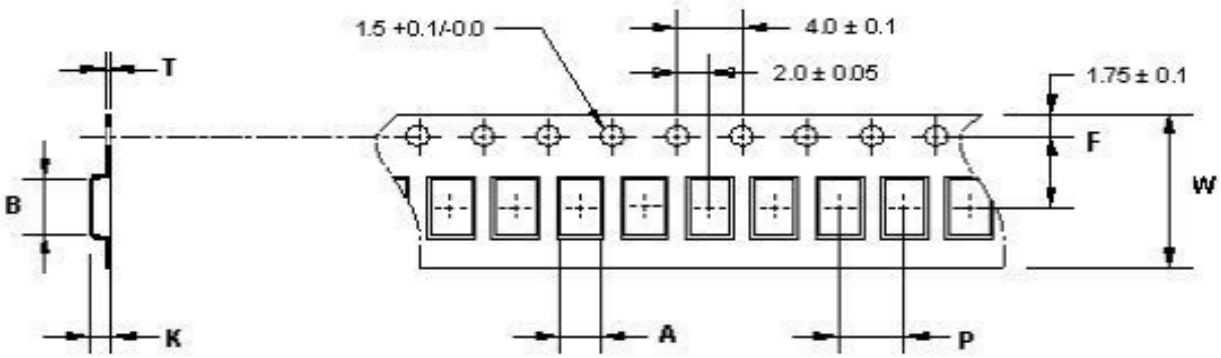


Fig.2

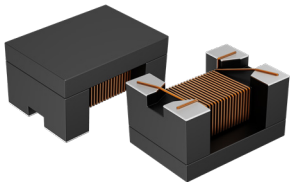


Dimensions in mm

TYPE	Tape Dimensions							Reel Dimensions				Quantity PCS/ REEL	Fig.
	A	B	T	W	P	F	K	A	B	C	D		
HNWC1005	0.67	1.20	0.75	8	2	3.5	-	180	60	13	12.2	4000	1
HNWC1608	1.25	1.85	0.26	8	4	3.5	1.1	180	60	13	12.2	4000	2
HNWN2012	1.60	2.42	0.22	8	4	3.5	1.55	180	60	13	12.2	2000	2
HNWC2520	2.73	2.90	0.25	8	4	3.5	2.34	180	60	13	12.2	2000	2
HNWC3225	2.96	3.60	0.25	8	4	3.5	2.40	180	60	13	12.2	2000	2

Automotive
AEC-Q200

HMMC SERIES



FEATURES

- RoHS compliant
- Miniature SMD type common mode filter for fully automated assembly
- Wide impedance range (30Ω ~ 2200Ω) for noise suppression
- Excellent solderability

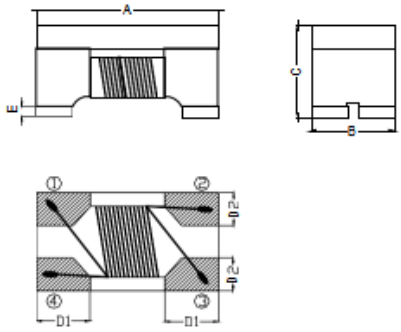
ORDERING CODE

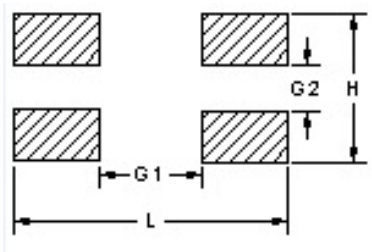
HMMC	2012	Z	220	M	D	00

Type	Dimensions	Internal code	L/Z code	Tolerance	Material code	Tail code
	2012	Z：Impedance	R47:0.47	M：±20%	D：magnetic	
	3216	L：Inductance	4R7:4.7	T：±30%		
	3225		470:47			
	4532		471:470			

HMMC

Shape and Dimensions





Dimensions in mm

TYPE	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	E(mm)	L(mm)	H(mm)	G1(mm)	G2(mm)
HMMC2012Z	2.0±0.2	1.2±0.2	1.2±0.2	0.50±0.1	0.51±0.1	0.15±0.1	2.6	1.4	1.25	0.45
HMMC3216Z	3.2±0.2	1.6±0.2	2.0±0.2	0.65±0.1	0.6±0.1	0.15±0.1	3.5	1.7	2.3	0.5
HMMC3216L	3.4±0.2	1.6±0.2	2.0±0.2	0.65±0.1	0.6±0.1	0.15±0.1	3.7	1.7	2.3	0.5
HMMC3225Z	3.2±0.2	2.5±0.2	2.5max	0.55±0.1	0.95±0.1	0.15±0.1	4	3.5	1.6	0.6
HMMC3225L	3.2±0.2	2.5±0.2	2.5max	0.55±0.1	0.95±0.1	0.15±0.1	4	3.5	1.6	0.6
HMMC4532Z	4.5±0.2	3.2±0.2	2.8±0.2	1.0±0.3	1.2±0.3	0.15±0.1	4.8	3.8	2.5	0.7
HMMC4532L	4.5±0.2	3.2±0.2	2.8±0.2	1.0±0.3	1.2±0.3	0.15±0.1	4.8	3.8	2.5	0.7

HMMC2012Z series Standard Specifications

Part No.	Common mode Impedance (Ω)	Test Freq.	DCR(Ω) Max	Rated Current (mA) Max	Rated Volt. (Vdc) Max	Withstand Volt. (Vdc) Max	IR(Ω) Min	Tolerance (±%)
HMMC2012Z670□D00	67	100MHz	0.25	400	50	125	10M	20,25,30
HMMC2012Z900□D00	90	100MHz	0.30	400	50	125	10M	20,25,30
HMMC2012Z121□D00	120	100MHz	0.30	400	50	125	10M	20,25,30
HMMC2012Z161□D00	160	100MHz	0.35	350	50	125	10M	20,25,30
HMMC2012Z181□D00	180	100MHz	0.35	350	50	125	10M	20,25,30
HMMC2012Z201□D00	200	100MHz	0.40	300	50	125	10M	20,25,30
HMMC2012Z221□D00	220	100MHz	0.40	300	50	125	10M	20,25,30
HMMC2012Z261□D00	260	100MHz	0.40	300	50	125	10M	20,25,30
HMMC2012Z361□D00	360	100MHz	0.50	300	50	125	10M	20,25,30
HMMC2012Z371□D00	370	100MHz	0.50	300	50	125	10M	20,25,30
HMMC2012Z391□D00	390	100MHz	0.60	300	50	125	10M	20,25,30
HMMC2012Z601□D00	600	100MHz	0.60	300	50	125	10M	20,25,30
HMMC2012Z801□D00	800	100MHz	0.88	300	50	125	10M	20,25,30
HMMC2012Z102□D00	1000	100MHz	1.30	100	50	125	10M	20,25,30

HMMC3216Z series Standard Specifications

Part No.	Common mode Impedance (Ω)	Test Freq.	DCR(Ω) Max	Rated Current (mA) Max	Rated Volt. (Vdc) Max	Withstand Volt. (Vdc) Max	IR(Ω) Min	Tolerance (±%)
HMMC3216Z900□D00	90	100MHz	0.30	400	50	125	10M	20,25,30
HMMC3216Z121□D00	120	100MHz	0.30	350	50	125	10M	20,25,30
HMMC3216Z161□D00	160	100MHz	0.40	350	50	125	10M	20,25,30
HMMC3216Z221□D00	220	100MHz	0.45	300	50	125	10M	20,25,30
HMMC3216Z261□D00	260	100MHz	0.50	300	50	125	10M	20,25,30
HMMC3216Z361□D00	360	100MHz	0.60	300	50	125	10M	20,25,30
HMMC3216Z601□D00	600	100MHz	0.80	300	50	125	10M	20,25,30
HMMC3216Z102□D00	1000	100MHz	1.00	200	50	125	10M	20,25,30
HMMC3216Z222□D00	2200	100MHz	1.20	200	50	125	10M	20,25,30

Note: When ordering, please specify Tolerance code. Tolerance □ : M=±20% , Y=±25% , T=±30%

HMMC3216L series Standard Specifications

Part No.	Inductance (μH)min	Test Freq.	DCR(Ω) Max	Rated Current (mA) Max	Rated Volt. (Vdc) Max	Withstand Volt. (Vdc) Max	IR(Ω) Min
HMMC3216L400UD00	40	100KHz/0.1V	1.5	300	50	125	10M
HMMC3216L600UD00	60	100KHz/0.1V	1.7	200	50	125	10M
HMMC3216L101UD00	100	100KHz/0.1V	3.0	120	50	125	10M

HMMC3225L series Standard Specifications

Part Number	Impedance (Ω) min	Impedance (Ω)typ	Frequency (MHz)	Inductance -30%/+50% (uH)	Test Frequency (KHz/V)	DCR (Ω) max	Rated Current (mA) max	Rated Volt. (Vdc)max	Withstand Volt. (Vdc) max	IR(Ω) min
HMMC3225L110YD00	300	550	10	11	100/0.1	0.4	300	80	125	10M
HMMC3225L220YD00	500	1100	10	22	100/0.1	0.5	250	80	125	10M
HMMC3225L510YD00	1000	2600	10	51	100/0.1	0.7	200	80	125	10M
HMMC3225L101YD00	2000	5100	10	100	100/0.1	1.5	150	80	125	10M

Note: When ordering, please specify Tolerance code. Tolerance □ : M=±20% , Y=±25% , T=±30%

HMMC3225Z series Standard Specifications

Part No.	Common mode Impedance (Ω)	Test Freq.	DCR(Ω) Max	Rated Current (mA) Max	Rated Volt. (Vdc) Max	Withstand Volt. (Vdc) Max	IR(Ω) Min	Tolerance (±%)
HMMC3225Z900YD00	90	100MHz	0.05	1000	50	125	10M	25
HMMC3225Z601YD00	600	100MHz	0.20	1000	50	125	10M	25
HMMC3225Z102YD00	1000	100MHz	0.30	400	50	125	10M	25

HMMC4532Z series Standard Specifications

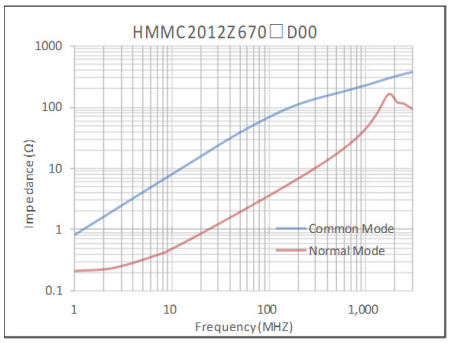
Part No.	Common mode Impedance (Ω)	Test Freq.	DCR(Ω) Max	Rated Current (mA) Max	Rated Volt. (Vdc) Max	Withstand Volt. (Vdc) Max	IR(Ω) Min	Tolerance (±%)
HMMC4532Z900YD00	90	100MHz	0.05	2000	50	125	10M	25
HMMC4532Z121YD00	120	100MHz	0.07	1600	50	125	10M	25
HMMC4532Z331YD00	330	100MHz	0.11	1100	50	125	10M	25
HMMC4532Z601YD00	600	100MHz	0.12	1000	50	125	10M	25
HMMC4532Z801YD00	800	100MHz	0.18	900	50	125	10M	25
HMMC4532Z102YD00	1000	100MHz	0.19	800	50	125	10M	25
HMMC4532Z142YD00	1400	100MHz	0.20	700	50	125	10M	25

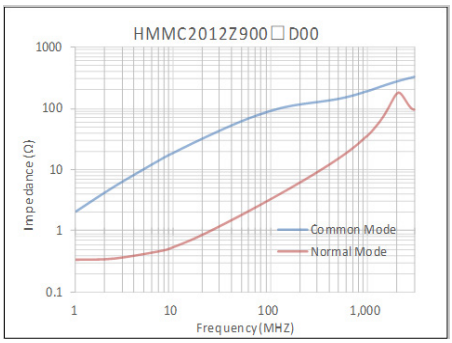
HMMC4532L series Standard Specifications

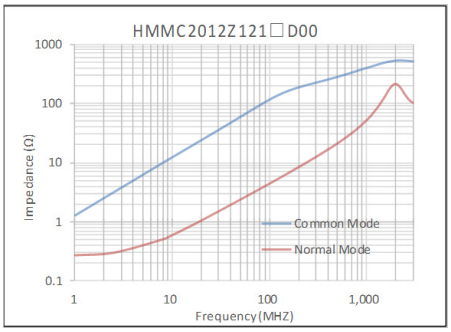
Part No.	Inductance(μH) 100kHz/0.1V	"Impedance (Ω) 10MHz" min	"Impedance (Ω) 10MHz" typ	"DC Resistance " (Ω) max	Rated Current (mA)max	Rated Volt. (Vdc) Max	"Withstand Volt. (Vdc)" Max	IR(Ω) Min
HMMC4532L110TD00	11±30%	300	600	0.6	250	50	125	10M
HMMC4532L220TD00	22±30%	500	1200	1.0	200	50	125	10M
HMMC4532L510TD00	51±30%	1000	2800	1.0	200	50	125	10M
HMMC4532L680TD00	68±30%	1500	3500	1.2	200	50	125	10M
HMMC4532L101TD00	100±30%	2000	5800	2.0	200	50	125	10M
HMMC4532L121TD00	120±30%	2500	6500	4.0	200	50	125	10M
HMMC4532L161TD00	160±30%	3000	7500	4.0	200	50	125	10M
HMMC4532L201TD00	200±30%	4000	9000	4.5	100	50	125	10M

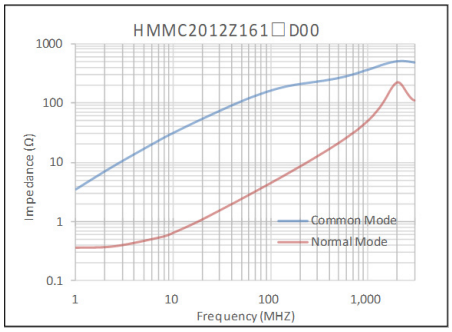
Note: When ordering, please specify Tolerance code. Tolerance □ : M=±20% , Y=±25% , T=±30%

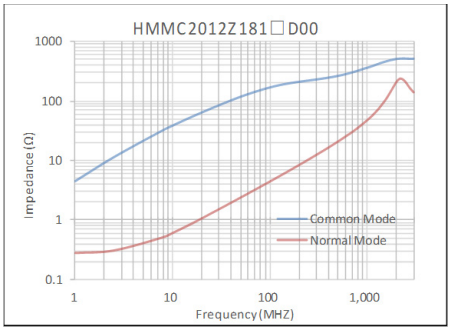
Product Characteristic Curve

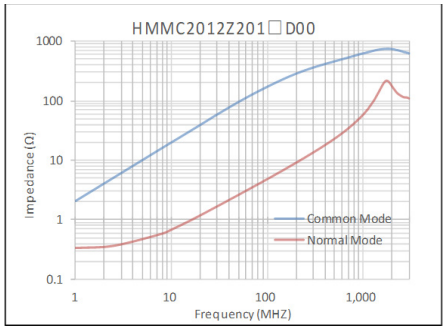


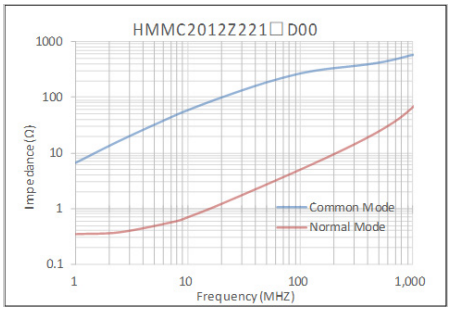


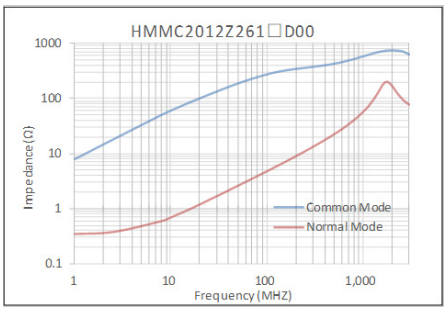


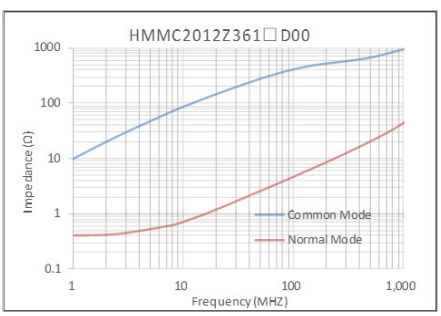


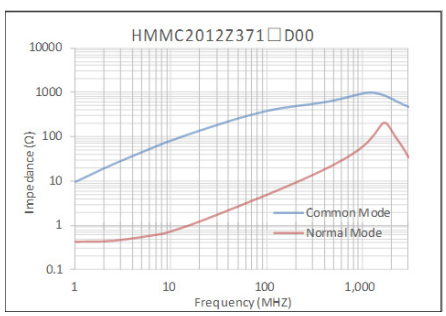




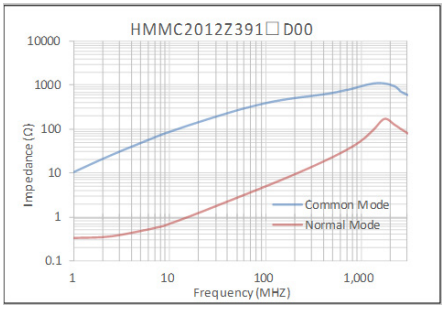


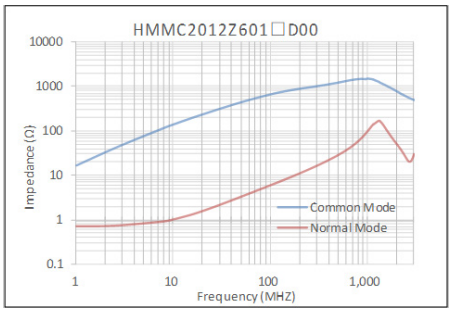


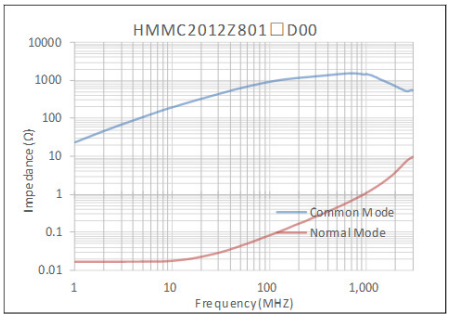


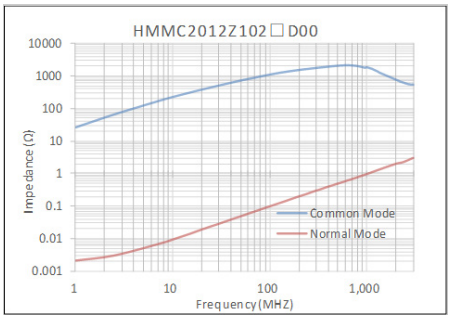


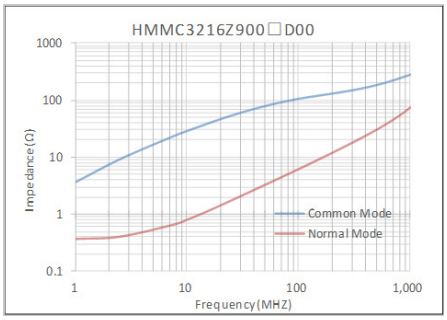
Product Characteristic Curve

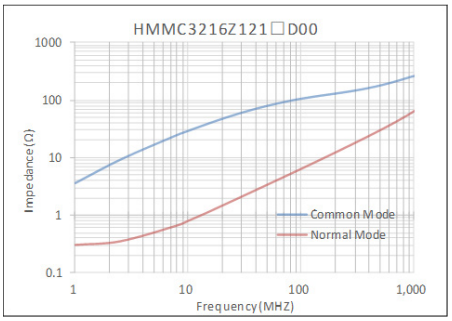


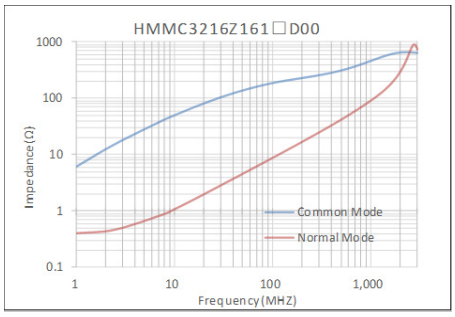


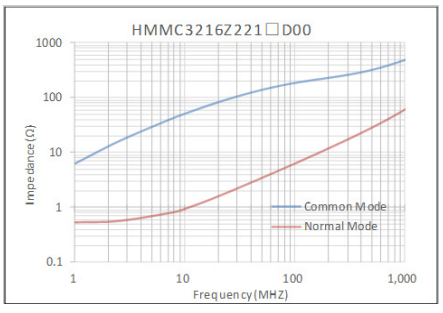


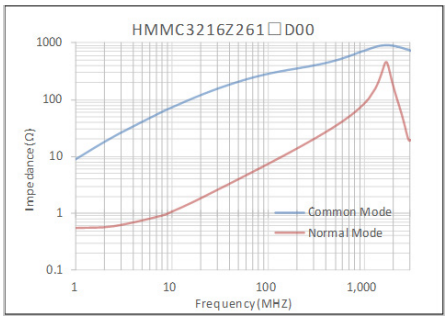


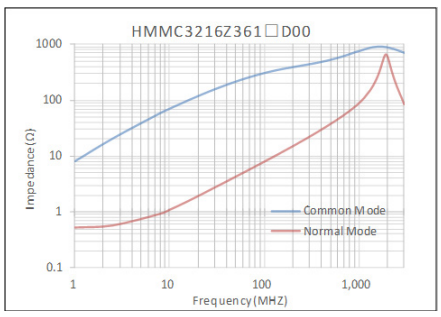




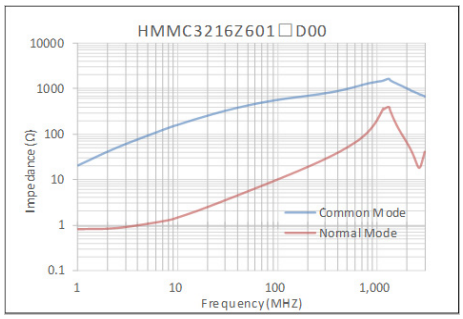


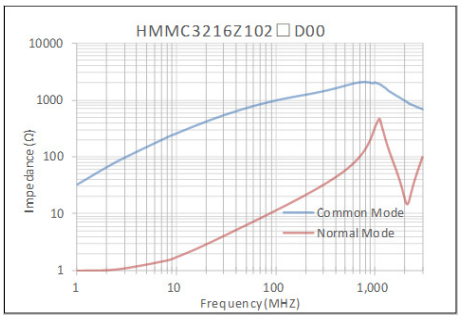


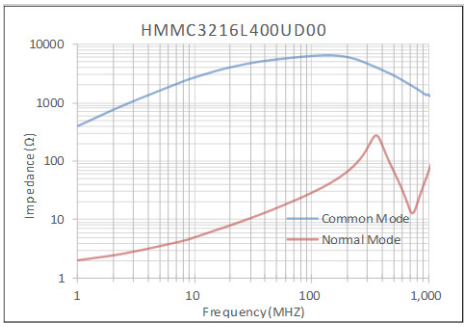


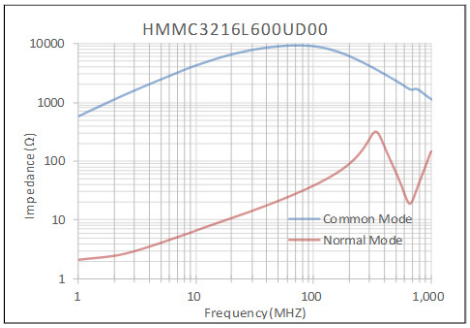


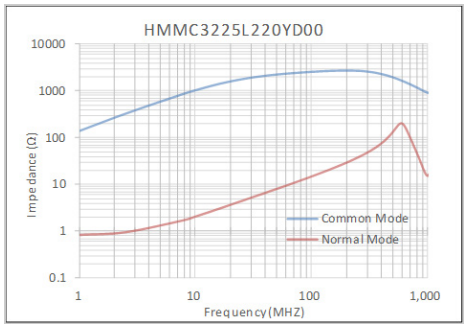
Product Characteristic Curve

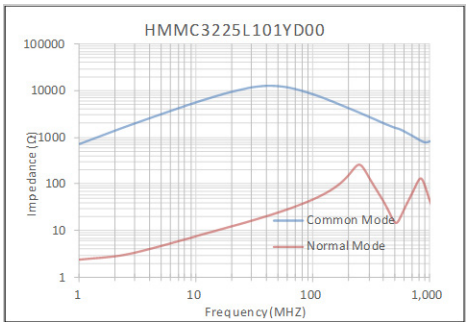


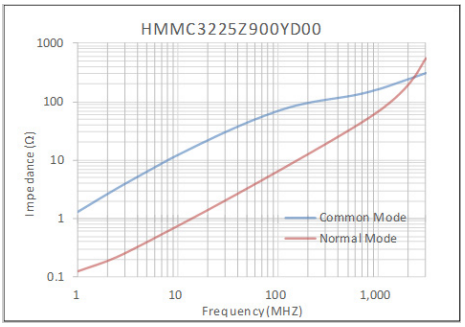


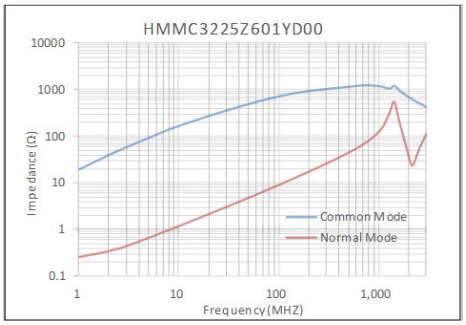


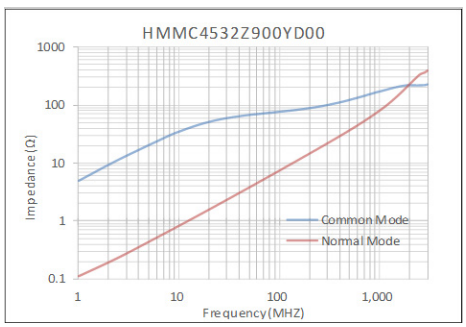


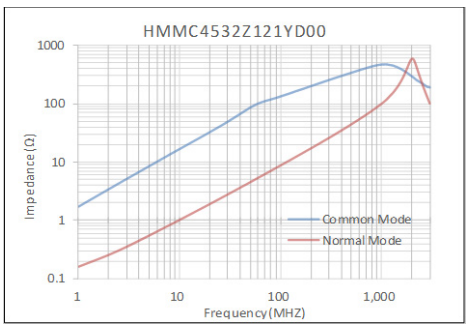




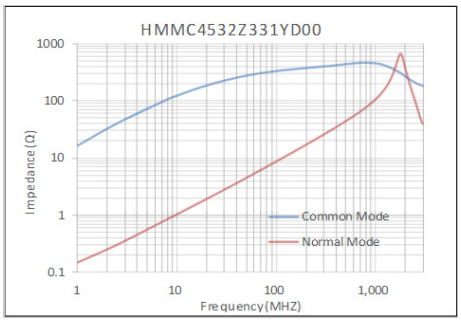


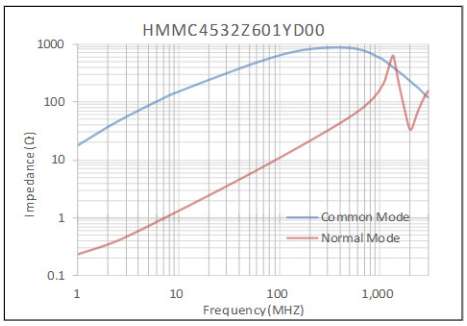


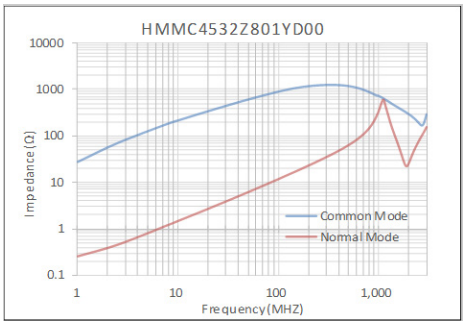


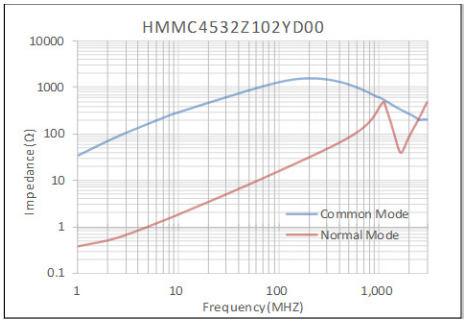


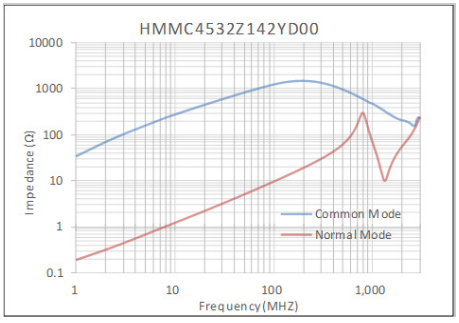
Product Characteristic Curve

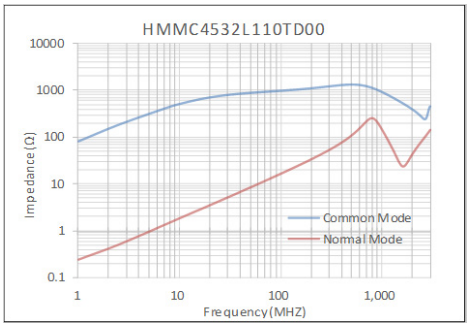


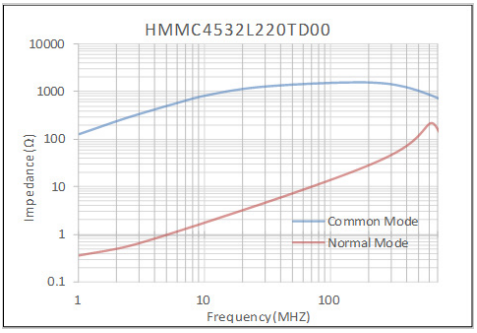


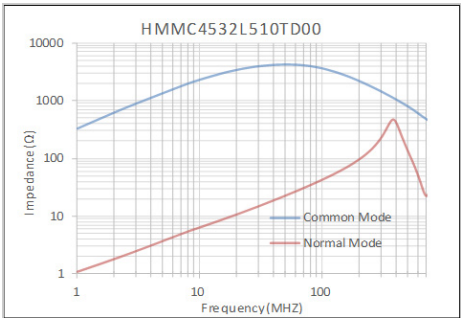


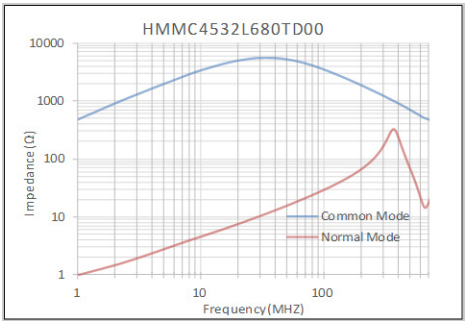


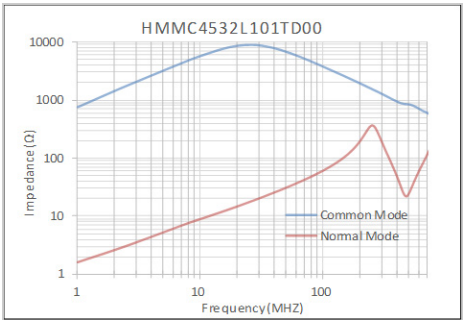




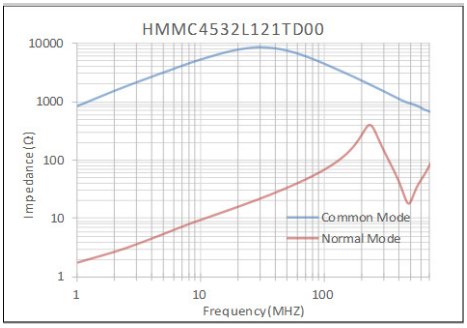


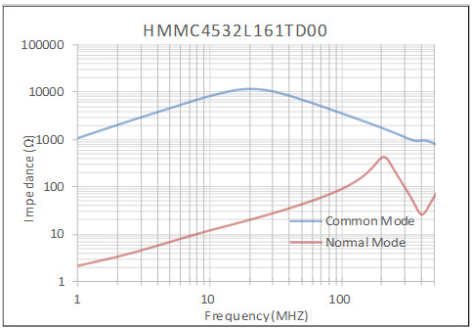


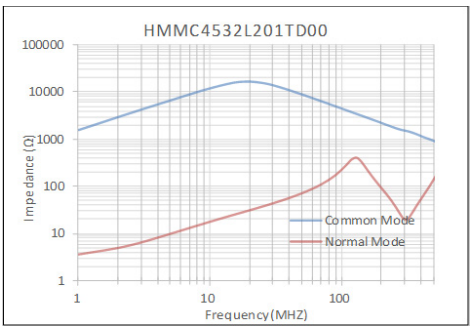




Product Characteristic Curve

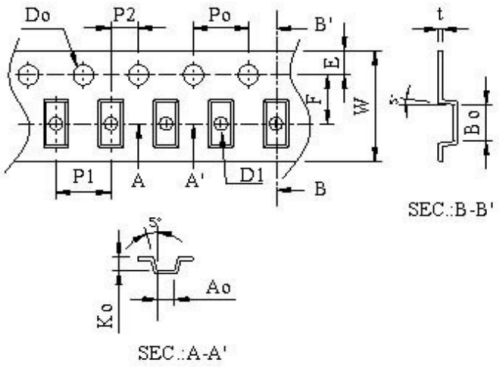


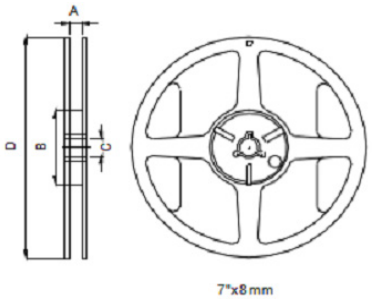




Packaging Specifications

Tape Dimensions	Reel Dimensions





Dimensions in mm

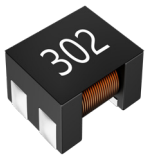
TYPE	Tape Dimensions															Quantity PCS/REEL
	A0	B0	K0	W	P1	P0	P2	D0	E	F	T	A	B	C	D	
HMMC2012	1.5	2.35	1.45	8	4	4	2	1.5	1.75	3.5	0.28	9	60	13	178	2000
HMMC3216	1.88	3.5	2.2	8	4	4	2	1.5	1.75	3.5	0.28	9	60	13	178	2000
HMMC3225	2.88	3.72	2.5	8	4	4	2	1.5	1.75	3.5	0.28	9	60	13	178	1500
HMMC4532	3.6	4.9	3	12	8	4	2	1.5	1.75	5.5	0.28	13.2	60	13	178	500

ISO9001 / ISO14001 / IATF16949

Automotive
AEC-Q200

HMMC SERIES

FEATURES



- RoHS compliant
- Miniature SMD type common mode filter for fully automated assembly
- Wide impedance range (30Ω ~ 2200Ω) for noise suppression
- Excellent solderability

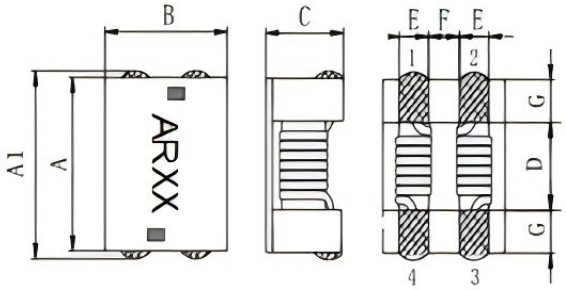
ORDERING CODE

HMMC	2012	Z	220	M	D	00

Type	Dimensions	Internal code	L/Z code	Tolerance	Material code	Tail code
	7060	Z: Impedance	470:47	M: ±20%	M: mylar	
	9070		471:470	T: ±30%	B: Base	
	1211					
	1513					

HMMC

Shape and Dimensions



Dimensions in mm

TYPE	A1(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)
HMMC7060Z	7.50±0.5	6.00±0.5	3.80Max	3.50Typ	1.52Typ	1.52Typ	1.72Typ
HMMC9070Z	9.50±0.5	7.00±0.5	5.00Max	5.70Typ	1.50Typ	2.00Typ	1.70Typ
HMMC1211Z	12.50±0.5	10.80±0.5	6.60Max	7.00Typ	2.70Typ	2.50Typ	2.50Typ
HMMC1513Z	15.60±0.5	13.00±0.5	6.60Max	9.40Typ	2.60Typ	3.80Typ	2.50Typ

HMMC7060Z series Standard Specifications

Part No.	Impedance (Ω)		Frequency	DCR(mΩ)	Rated Current (A)	ReatedVolt. (Vdc)	IR(Ω)	Marking
	MIN	TYP		Max	Max	Max	Min	
HMMC7060Z400UB00	40	70	100MHz/0.1V	5.00	15.00	125	10M	A400
HMMC7060Z101UB00	100	140	100MHz/0.1V	10.00	9.00	125	10M	A101
HMMC7060Z301UB00	225	300	100MHz/0.1V	10.00	5.00	125	10M	A301
HMMC7060Z501UB00	275	350	100MHz/0.1V	10.00	5.00	125	10M	A501
HMMC7060Z601UB00	500	700	100MHz/0.1V	15.00	4.00	125	10M	A601
HMMC7060Z701UB00	500	700	100MHz/0.1V	15.00	4.00	125	10M	A701
HMMC7060Z102UB00	800	1020	100MHz/0.1V	17.00	3.00	125	10M	A102
HMMC7060Z132UB00	910	1300	100MHz/0.1V	25.00	2.50	125	10M	A132

HMMC9070Z series Standard Specifications

Part No.	Impedance (Ω)		Frequency	DCR(mΩ)	Rated Current (A)	ReatedVolt. (Vdc)	IR(Ω)	Marking
	MIN	TYP		Max	Max	Max	Min	
HMMC9070Z301UB00	225	300	100MHZ	6.00	6.00	125	10M	A301
HMMC9070Z501UB00	450	600	100MHZ	8.00	5.50	125	10M	A501
HMMC9070Z701UB00	500	700	100MHZ	10.00	5.00	125	10M	A701
HMMC9070Z102UB00	750	1000	100MHZ	13.00	4.00	125	10M	A102
HMMC9070Z222UB00	1700	2200	100MHZ	60.00	2.50	125	10M	A222
HMMC9070Z272UB00	2000	2700	100MHZ	65.00	2.00	125	10M	A272
HMMC9070Z302UB00	2500	3000	100MHZ	70.00	1.90	125	10M	A302

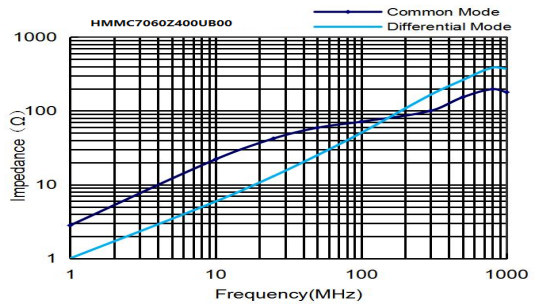
HMMC1211Z series Standard Specifications

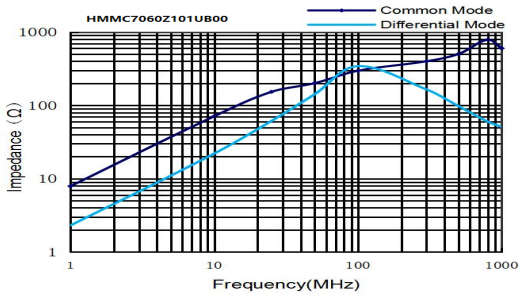
Part No.	Impedance (Ω)		Frequency	DCR(mΩ)	Rated Current (A)	ReatedVolt. (Vdc)	IR(Ω)	Marking
	MIN	TYP		Max	Max	Max	Min	
HMMC1211Z800UB00	80	140	100MHZ	4.00	10.00	125	10M	A800
HMMC1211Z701UB00	500	700	100MHZ	6.00	8.00	125	10M	A701
HMMC1211Z801UB00	600	800	100MHZ	8.00	8.00	125	10M	A801
HMMC1211Z102UB00	750	1000	100MHZ	14.00	6.00	125	10M	A102
HMMC1211Z132UB00	910	1300	100MHZ	23.00	4.50	125	10M	A132
HMMC1211Z222UB00	2200	2500	100MHZ	35.00	1.80	125	10M	A222
HMMC1211Z272UB00	2300	2700	100MHZ	50.00	1.50	125	10M	A272

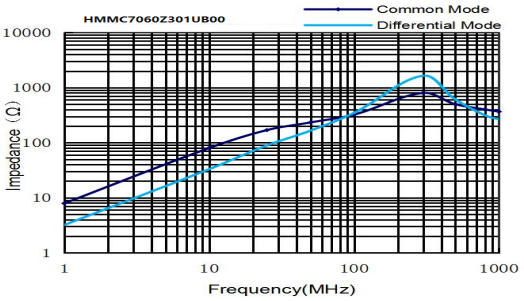
HMMC1513Z series Standard Specifications

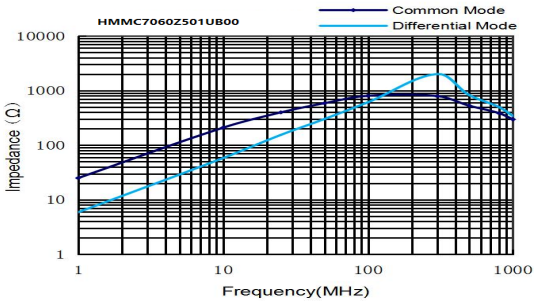
Part No.	" Impedance (Ω)"		"Test Frequency"	"DCR (mΩ)"	"Rated Current (A)"	"Rated Volt. (Vdc)"	"IR (Ω)"	Marking
	Min	Typ		Max	Max	Max	Min	
HMMC1513Z301UB00	225	300	100MHz	5.00	13.00	80	10M	A301
HMMC1513Z501UB00	400	550	100MHz	6.00	10.00	80	10M	A501
HMMC1513Z551UB00	400	550	100MHz	6.00	10.00	80	10M	A551
HMMC1513Z601UB00	500	700	100MHz	7.00	10.00	80	10M	A601
HMMC1513Z701UB00	500	700	100MHz	7.00	10.00	80	10M	A701
HMMC1513Z102UB00	800	1000	100MHz	10.00	9.00	80	10M	A102
HMMC1513Z152UB00	1200	1500	100MHz	23.00	5.00	80	10M	A152

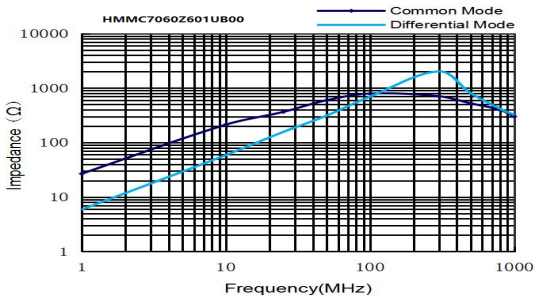
Product Characteristic Curve

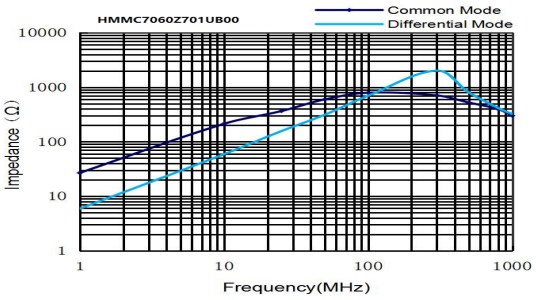


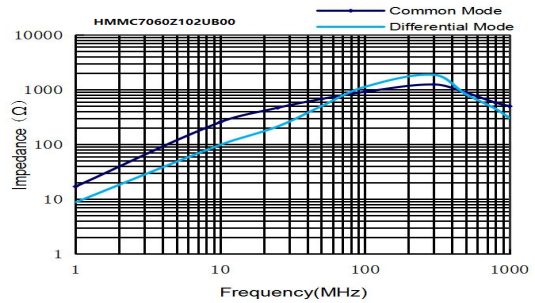


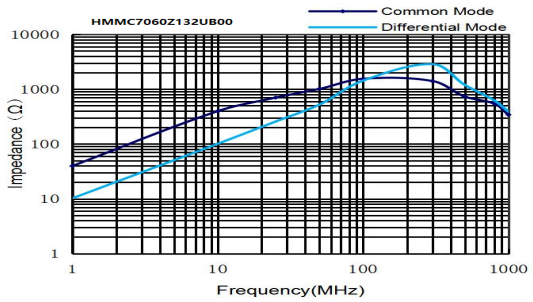




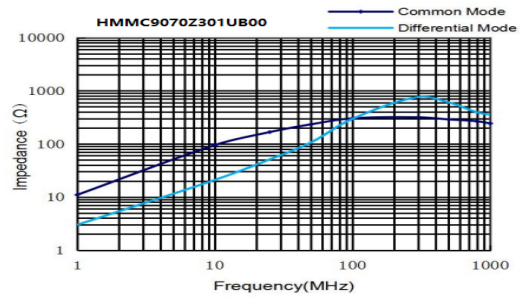


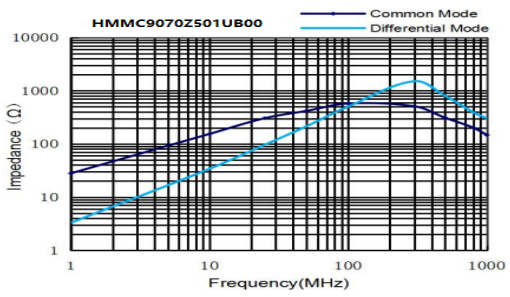


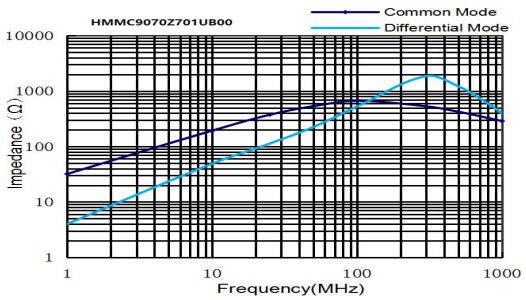


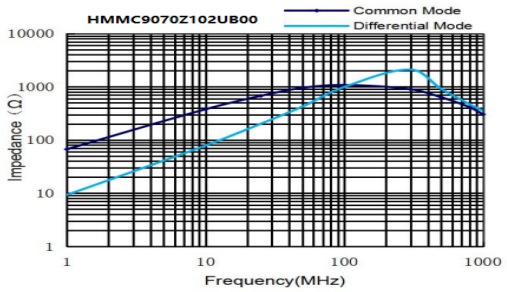


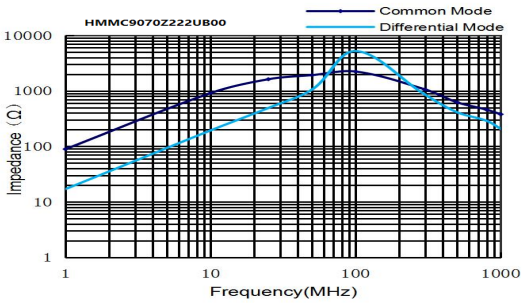
Product Characteristic Curve

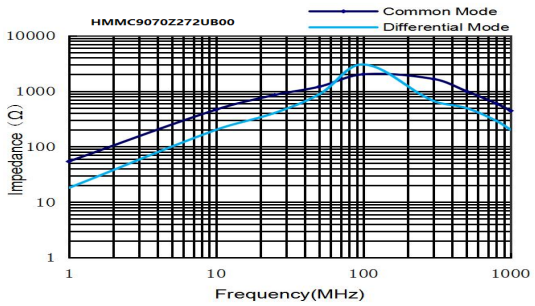


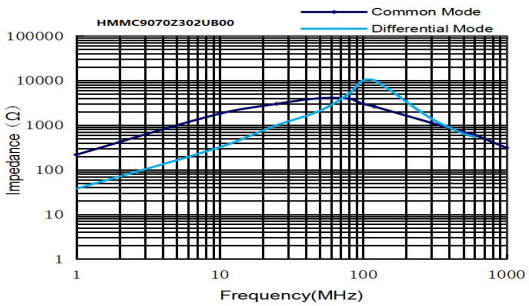




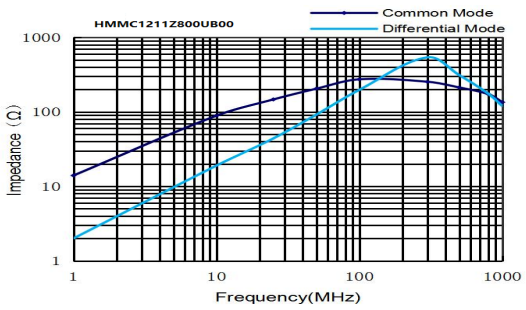


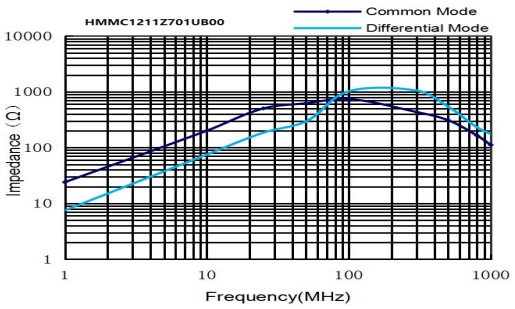


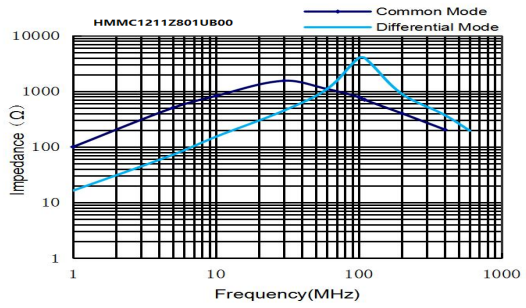


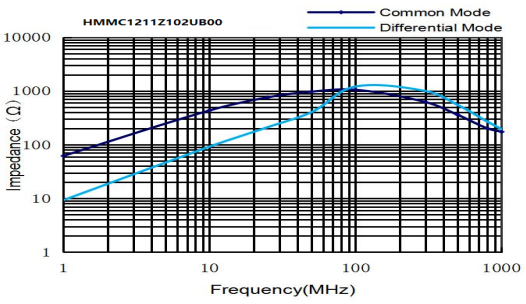


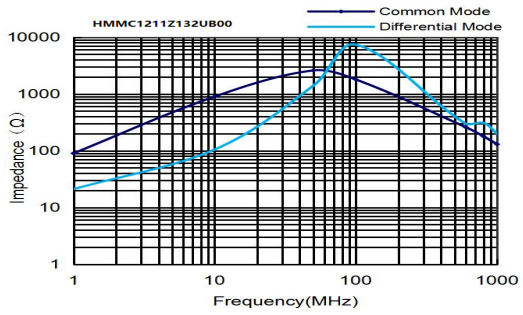
Product Characteristic Curve

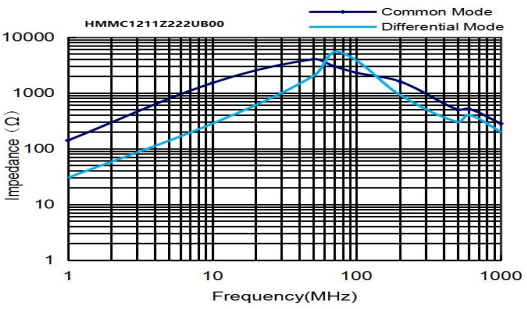


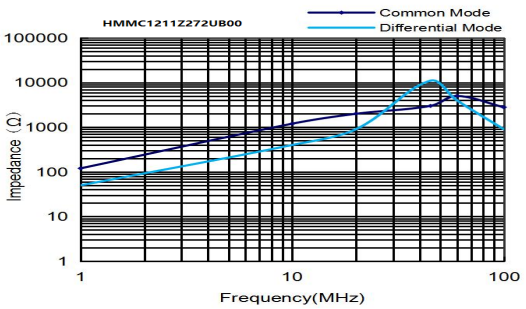




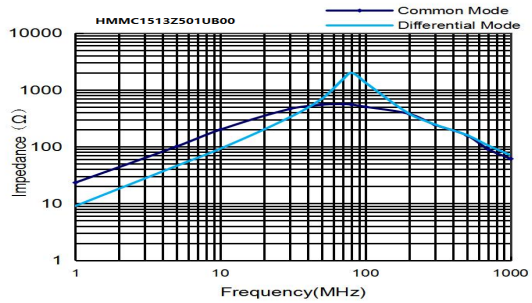


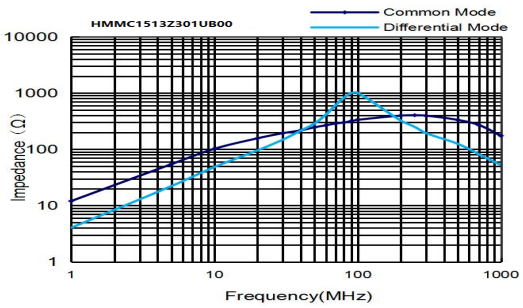


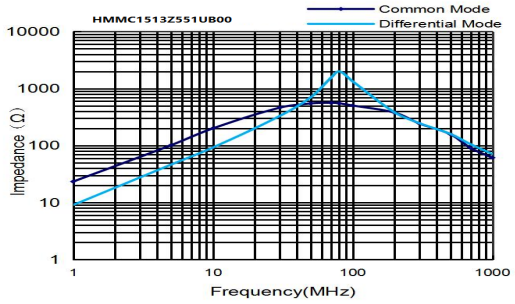


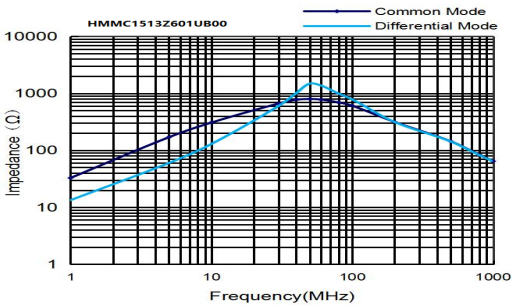


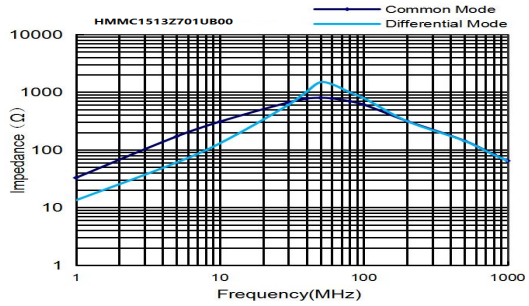
Product Characteristic Curve

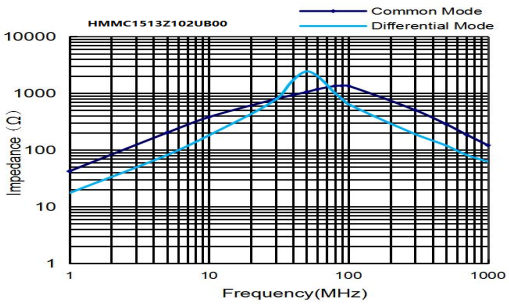


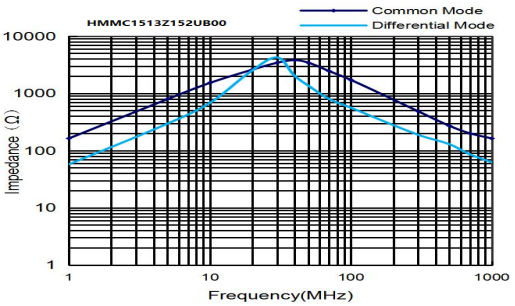






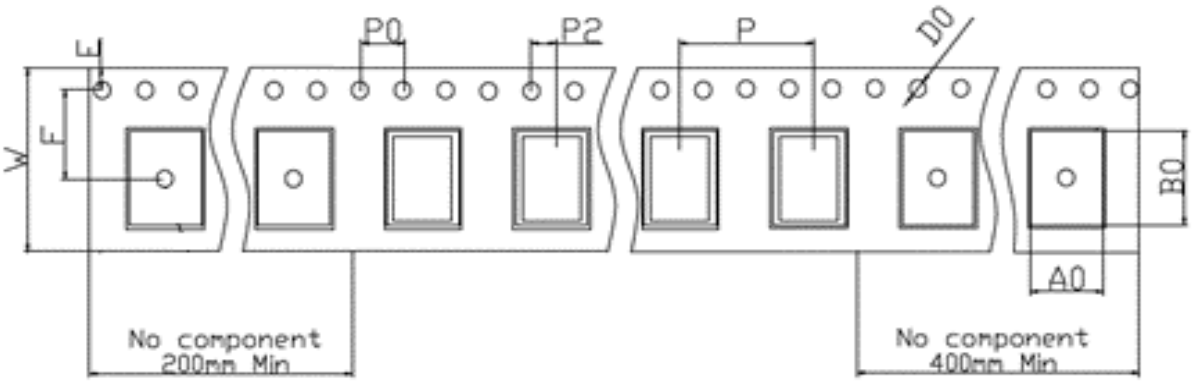


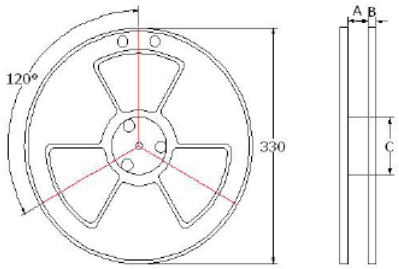




Packaging Specifications

Tape Dimensions	Reel Dimensions





Dimensions in mm

TYPE	Tape Dimensions											
	A0	B0	W	P	P0	P2	D0	E	F	A	B	C
HMMC7060	6.35	7.85	16.00	12.00	4.00	2.00	1.50	1.75	7.50	16.50	2.20	100.00
HMMC9070	7.60	9.60	24.00	16.00	4.00	2.00	1.50	1.75	11.50	24.80	2.20	100.00
HMMC1211	11.30	13.00	24.00	16.00	4.00	2.00	1.50	1.75	11.50	24.80	2.20	100.00
HMMC1513	14.00	16.00	24.00	20.00	4.00	2.00	1.50	1.75	11.50	24.80	2.20	100.00

ISO9001 / ISO14001 / IATF16949

Automotive
AEC-Q200

HUMC SERIES

FEATURES

- High performance (Isat) realized by metal dust core
- Low loss realized with low DCR
- 100% lead (Pb) free meet RoHS standard

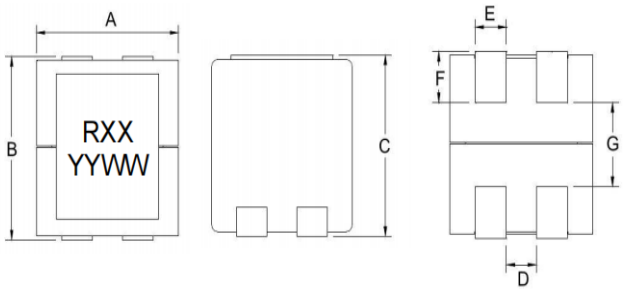


ORDERING CODE

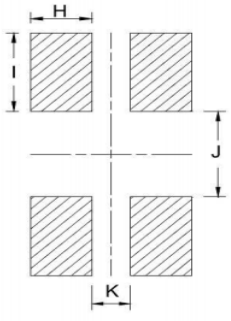
HUMC	0677	A	100	M	G	00

Type	Dimensions	Material code	Inductance	Tolerance	Colour	Tail code
HUMC	0677	A: Material Code	100: 10.0μH	M: ±20% T: ±30%	G: gray B: black	

Shape and Dimensions



Recommended Pattern



Dimensions in mm

TYPE	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	G(mm)	H(mm)	I(mm)	J(mm)	K(mm)
HUMC0677	6.90±0.4	7.60±0.4	1.20±0.3	1.60±0.3	1.65±0.3	2.00±0.5	3.40Typ	2.00Typ	3.20Typ	3.55Typ	1.25Typ
HUMC1010	10.2±0.4	9.20±0.4	10.85±0.3	2.40±0.3	2.50±0.3	2.45±0.5	4.30Typ	2.85Typ	4.05Typ	3.84Typ	2.10Typ

HUMC0677 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ(Max)	Irms(A) Typ(Max)	Tolerance (±%)	Marking
HUMC0677A3R3MG00	3.30	100KHz,1V	16.0(19.2)	13.0(11.1)	5.7(5.1)	20	3R3
HUMC0677A5R0MG00	5.00	100KHz,1V	25.0(30.0)	12.0(10.3)	4.5(4.1)	20	5R0
HUMC0677A8R2MG00	8.20	100KHz,1V	38.3(45.9)	7.7(6.6)	3.7(3.3)	20	8R2
HUMC0677A100MG00	10.00	100KHz,1V	43.0(49.0)	6.8(5.8)	3.5(3.2)	20	100
HUMC0677A150MG00	15.00	100KHz,1V	75.0(90.0)	6.0(5.1)	2.7(2.4)	20	150
HUMC0677A220MG00	22.00	100KHz,1V	112.0(134.0)	4.3(3.7)	2.2(2.0)	20	220

HUMC1010 series Standard Specifications

Part No.	Inductance (μH)	Test Freq.	DCR(mΩ) Typ(Max)	Isat(A) Typ(Max)	Irms(A) Typ(Max)	Tolerance (±%)	Marking
HUMC1010A1R0MG00	1.00	100KHz,1V	3.3(4.0)	50.0(43.0)	13.0(12.0)	20	1R0
HUMC1010A2R2MG00	2.20	100KHz,1V	5.0(6.0)	32.0(27.5)	10.0(9.0)	20	2R2
HUMC1010A3R3MG00	3.30	100KHz,1V	7.5(8.6)	26.0(23.4)	9.0(8.0)	20	3R3
HUMC1010A5R0MG00	5.00	100KHz,1V	9.0(11.0)	20.0(17.0)	8.0(7.0)	20	5R0
HUMC1010A5R6MG00	5.60	100KHz,1V	14.0(16.8)	19.0(16.0)	6.4(5.8)	20	5R6
HUMC1010A8R2MG00	8.20	100KHz,1V	17.4(20.0)	14.0(12.0)	6.0(5.4)	20	8R2
HUMC1010A100MG00	10.00	100KHz,1V	18.0(22.0)	12.0(10.0)	5.8(5.2)	20	100
HUMC1010A150MG00	15.00	100KHz,1V	34.0(40.8)	9.0(7.7)	4.5(4.0)	20	150
HUMC1010A220MG00	22.00	100KHz,1V	46.0(56.0)	8.5(7.3)	3.6(3.2)	20	220

NOTE: □-tolerance M=±20% / T=±30%

1.Operating temperature range -55℃ ~125℃ (Including self - temperature rise)

2.Irms: DC current (A) that will cause an approximate ΔT of 40℃

3.Isat : DC current (A) that will cause L0 to drop approximately 25%

4.The part temperature (ambient + temp rise) should not exceed 125 ℃ under the worst case operating conditions. Circuit design,

component placement,PCB trace size and thickness, airflow and other cooling provision all affect the part temperature.

Part temperature should be verified in the end application

Product Characteristic Curve

HUMC0677 series

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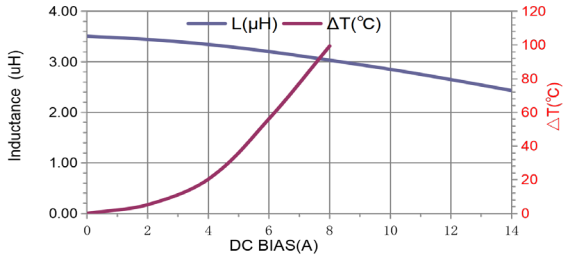

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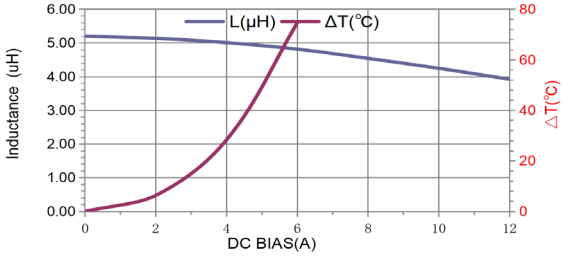

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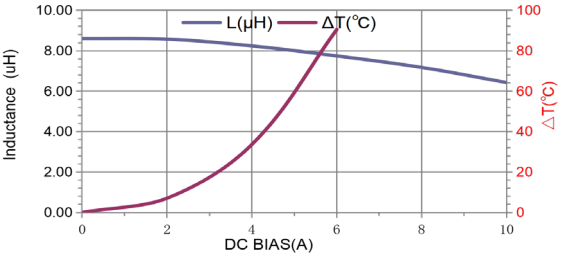

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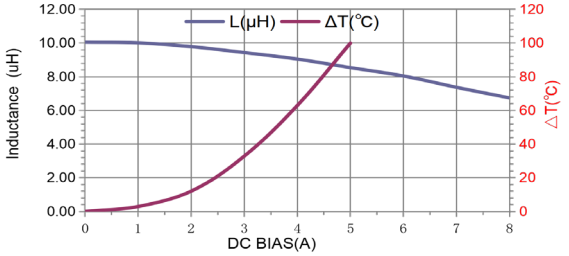

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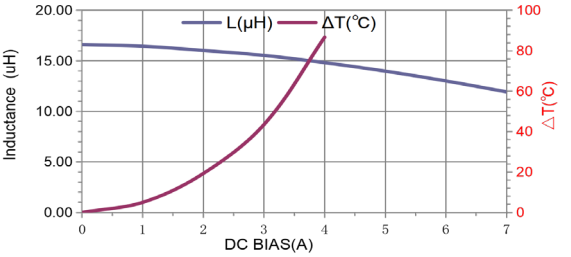

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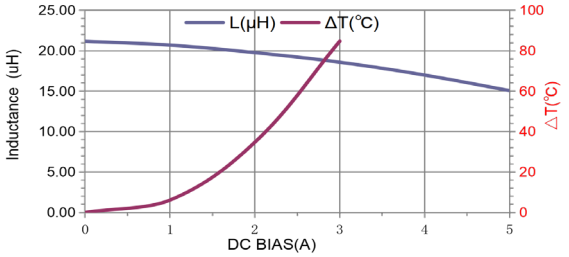

Product Characteristic Curve

HUMC1010 series

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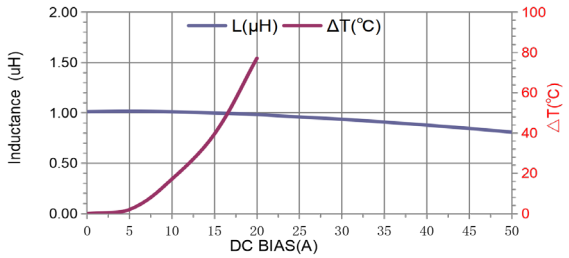

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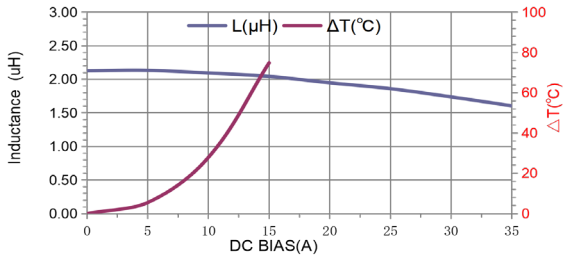

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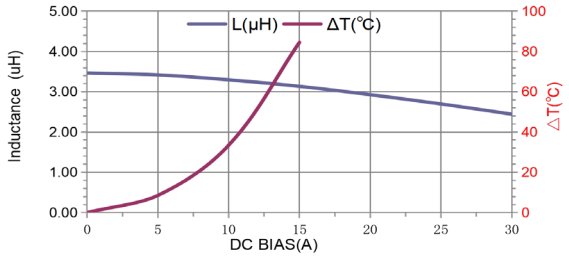

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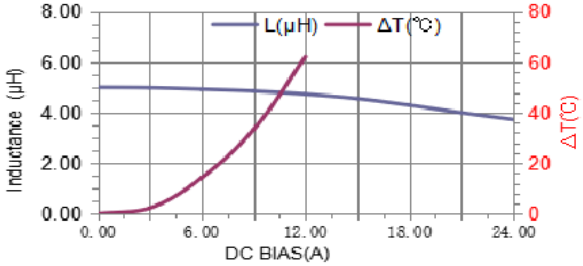

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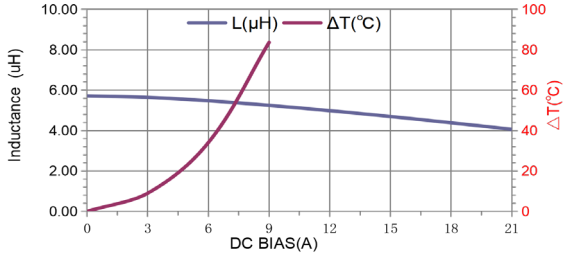

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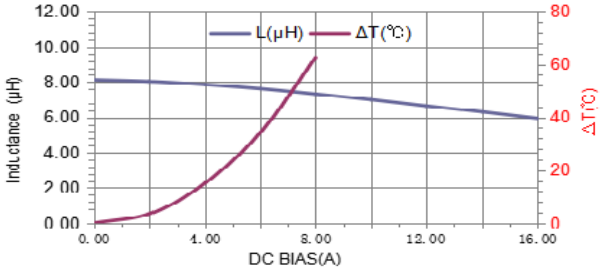

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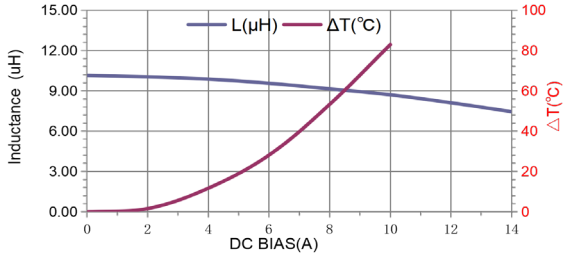

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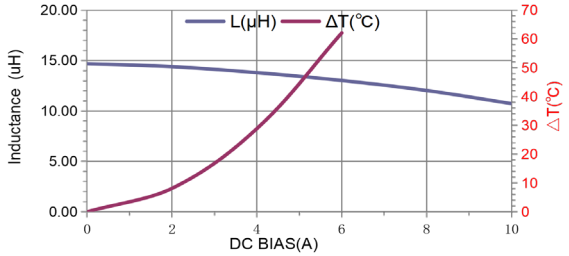

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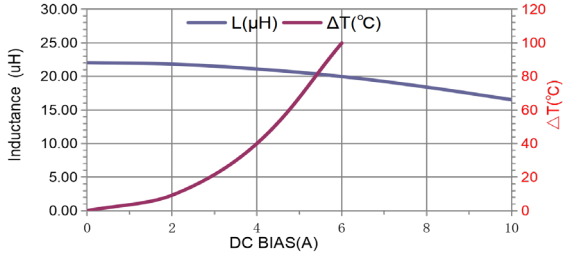

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