

HNT

Series

SMD Power Inductor

變更紀錄	日期	版本	製作	檢查	審核
1. 系列 SPEC 發行	2022/3/28	V1	Vincent	Tony	Alan



HNT Series

SMD Power Inductor

2 x 2

••▶ HNT2508 / HNT2510 / HNT2512

P.4 - P.10

3 x 3

••▶ HNT3012 / HNT3015

P.12 - P.17

4 x 4

••▶ HNT4018

P.19- P.23

5 x 5

••▶ HNT5020

P.25 - P.28

••▶ HNT5040

P.30 - P.34

6 x 6

••▶ HNT6020

P.36 - P.39

••▶ HNT6045

P.41 - P.46

8 x 8

••▶ HNT8040

P.48- P.54

2 x 2

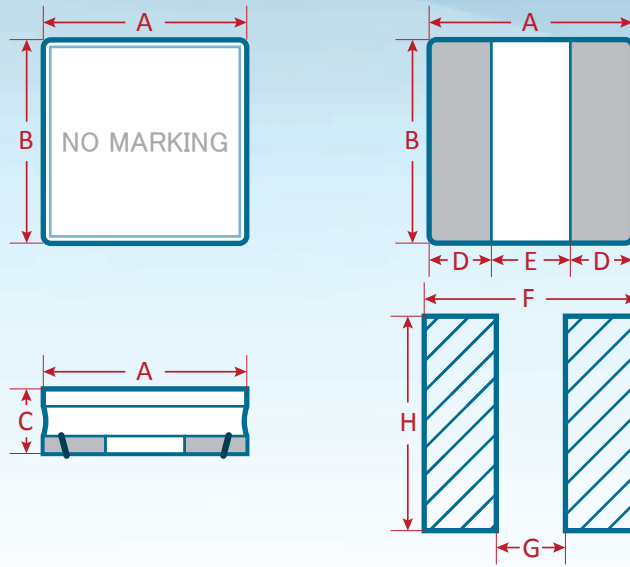
HNT2508 / HNT2510 / HNT2512

P.4 - P.10

HNT Series

SMD Power Inductor

Shape and Dimensions(mm):



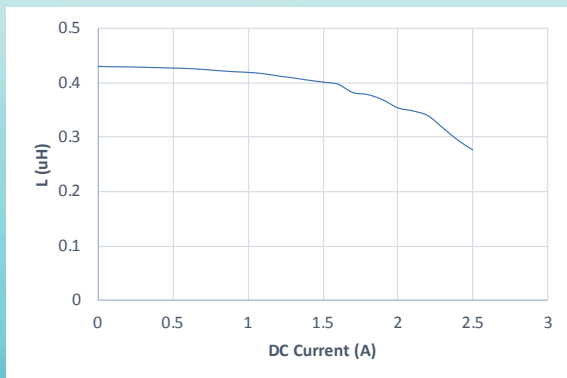
Item	A	B	C	D	E	F	G	H
HNT2508	2.5±0.2	2.0±0.2	0.8 Max.	0.85 Ref.	0.8 Ref.	2.7 Typ.	0.8 Typ.	2.2 Typ.
HNT2510	2.5±0.2	2.0±0.2	1.02Max.	0.85 Ref.	0.8 Ref.	2.7 Typ.	0.8 Typ.	2.2 Typ.
HNT2512	2.5±0.2	2.0±0.35	1.2 Max.	0.85 Ref.	0.8 Ref.	2.7 Typ.	0.8 Typ.	2.2 Typ.

HNT2508

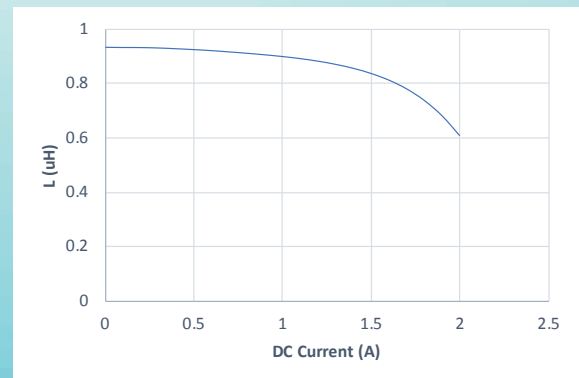
Marking : HNT2510MT2R2 : C
HNT2510MT4R7 : E

Part No.	Inductance (uH)	DCR(mΩ) ±30%	Isat(A)		I _{rms} (A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT2508MTR47	0.47	100	2.3	2.2	2.2	2.1	20
HNT2508MT1R0	1.0	219	1.8	1.7	2.0	1.9	20
HNT2508MT1R5	1.5	248	1.4	1.3	1.5	1.4	20
HNT2508MT2R2	2.2	290	1.1	1.0	1.15	1.1	20
HNT2508MT3R3	3.3	400	0.9	0.85	0.85	0.75	20
HNT2508MT4R7	4.7	580	0.8	0.75	0.85	0.8	20
HNT2508MT6R8	6.8	1000	0.6	0.55	0.55	0.5	20
HNT2508MT100	10	1230	0.55	0.5	0.6	0.55	20

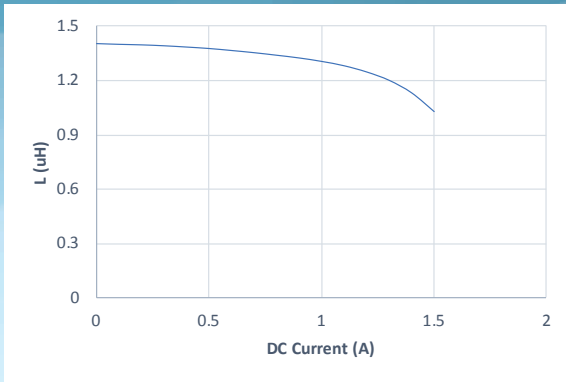
HNT2508MTR47



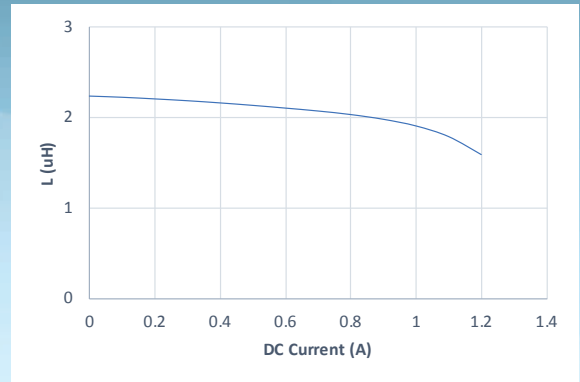
HNT2508MT1R0



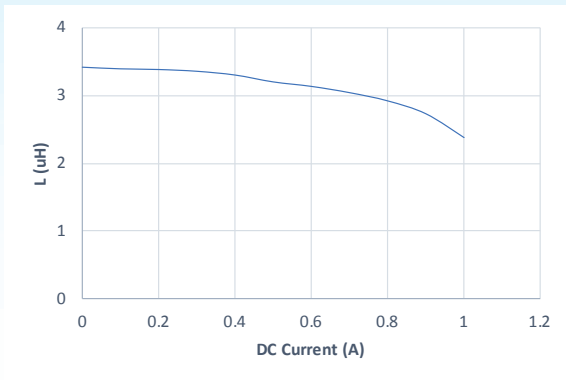
HNT2508MT1R5



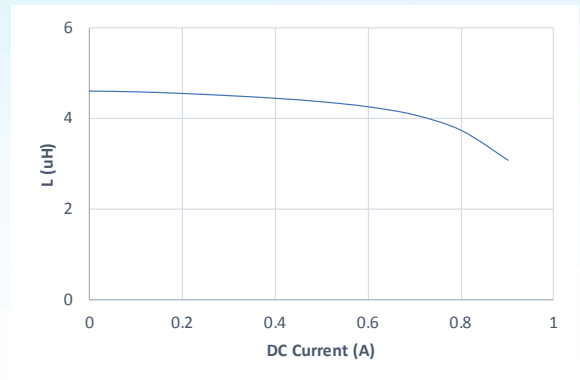
HNT2508MT2R2



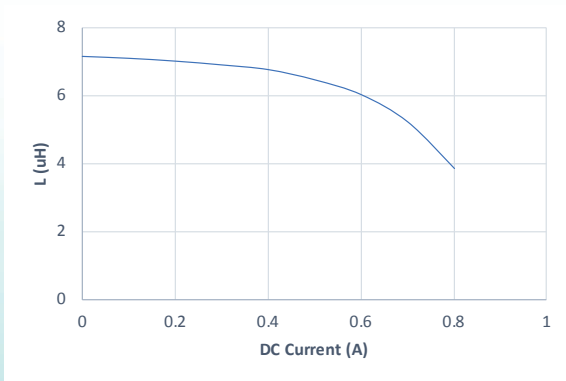
HNT2508MT3R3



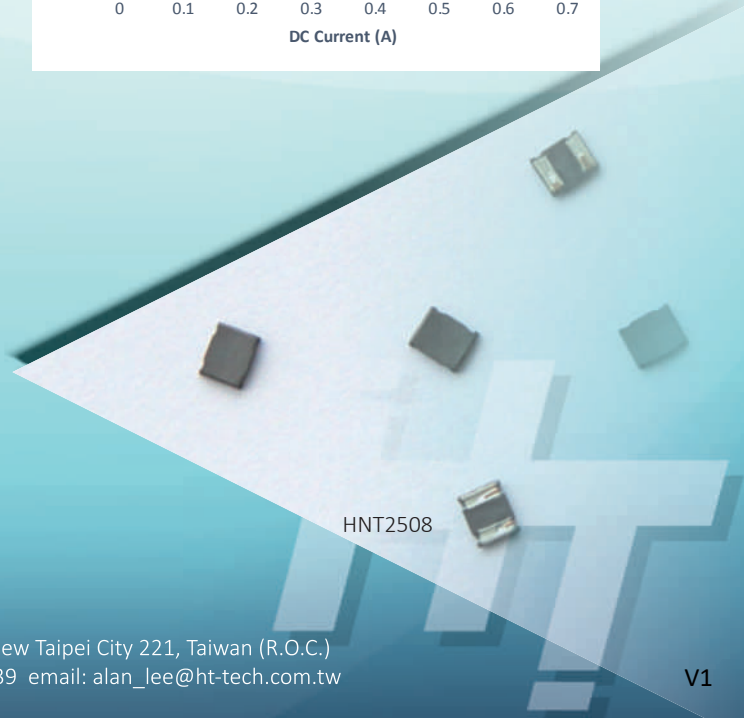
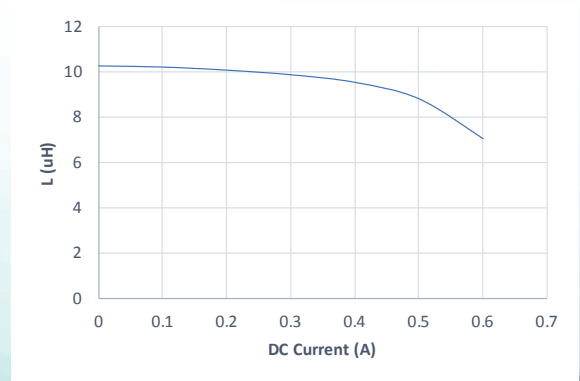
HNT2508MT4R7



HNT2508MT6R8



HNT2508MT100



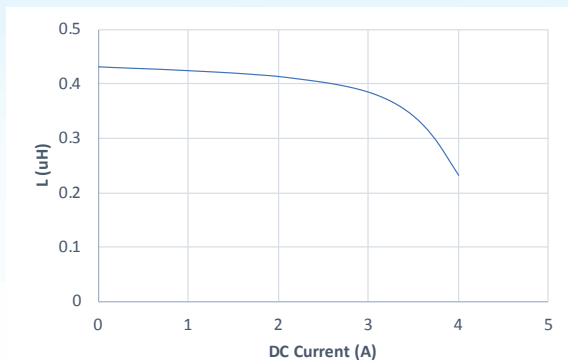
HNT2508

HNT2510

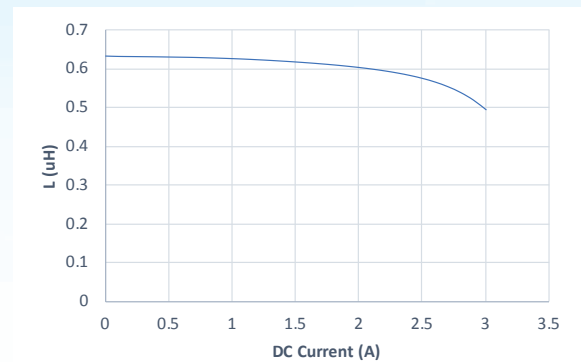


Part No.	Inductance (uH)	DCR(mΩ) ±30%	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT2510MTR47	0.47	45	4.0	3.2	3.1	2.9	20
HNT2510MTR68	0.68	70	3.4	2.7	2.6	2.4	20
HNT2510MT1R0	1.0	90	2.7	2.2	2.2	2.0	20
HNT2510MT1R5	1.5	125	2.3	1.8	2.0	1.8	20
HNT2510MT2R2	2.2	178	1.62	1.45	1.68	1.51	20
HNT2510MT3R3	3.3	220	1.7	1.4	1.6	1.4	20
HNT2510MT4R7	4.7	421	1.04	0.93	1.02	0.91	20
HNT2510MT5R6	5.6	345	1.2	1.0	0.9	0.9	20
HNT2510MT6R8	6.8	400	1.0	0.8	0.9	0.8	20
HNT2510MT100	10	560	0.9	0.7	0.7	0.6	20

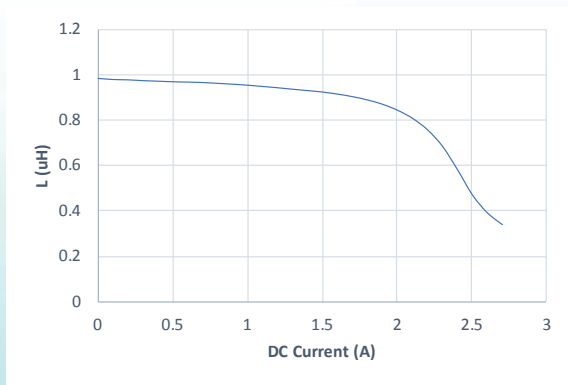
HNT2510MTR47



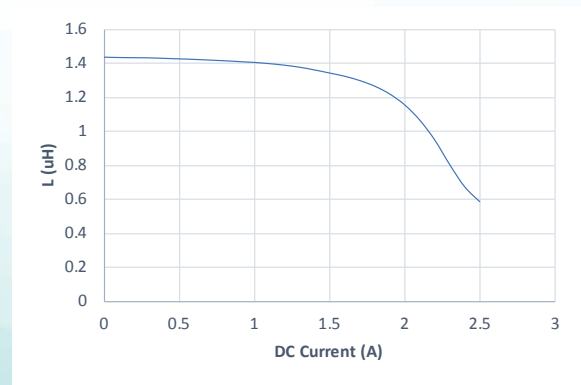
HNT2510MTR68



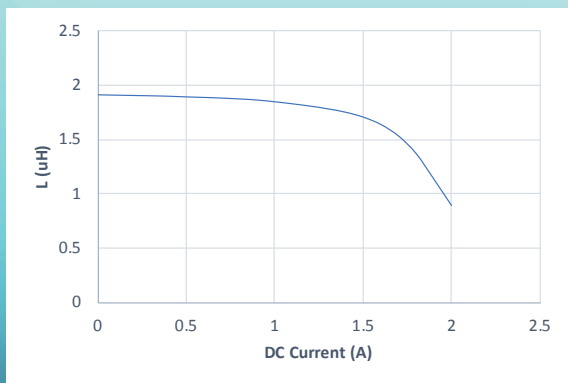
HNT2510MT1R0



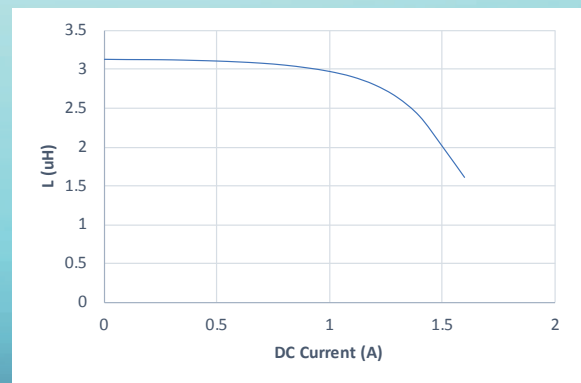
HNT2510MT1R5



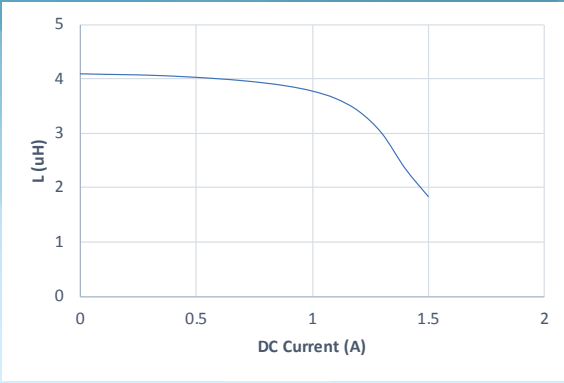
HNT2510MT2R2



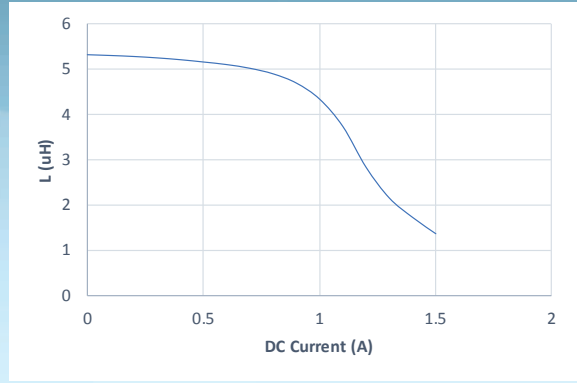
HNT2510MT3R3



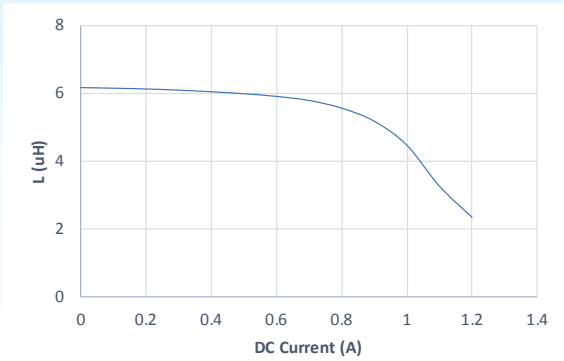
HNT2510MT4R7



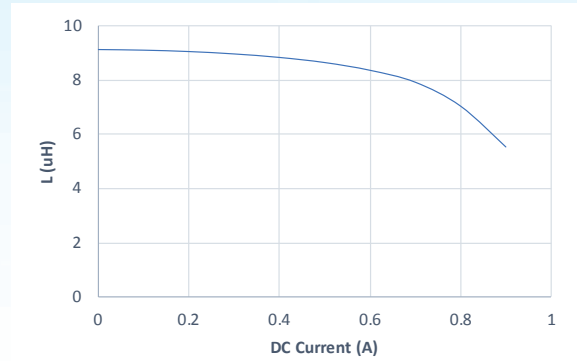
HNT2510MT5R6



HNT2510MT6R8



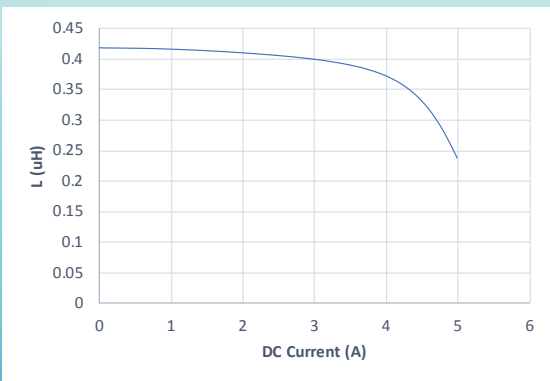
HNT2510MT100



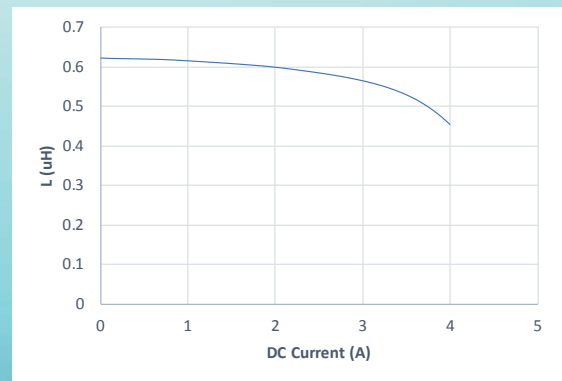
HNT2512

Part No.	Inductance (uH)	DCR(mΩ) ±30%	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT2512MTR47	0.47	48	4.6	4.1	3.96	3.6	20
HNT2512MTR68	0.68	55	3.85	3.5	3.3	3.0	20
HNT2512MT1R0	1.0	85	3.4	3.1	3.0	2.75	20
HNT2512MT1R5	1.5	110	2.5	2.25	2.2	2.0	20
HNT2512MT2R2	2.2	130	2.3	2.1	2.05	1.9	20
HNT2512MT3R3	3.3	190	1.7	1.5	1.43	1.3	20
HNT2512MT4R7	4.7	250	1.5	1.35	1.32	1.2	20
HNT2512MT6R8	6.8	385	1.2	1.05	0.99	0.92	20
HNT2512MT100	10	520	1.1	0.99	0.97	0.89	20

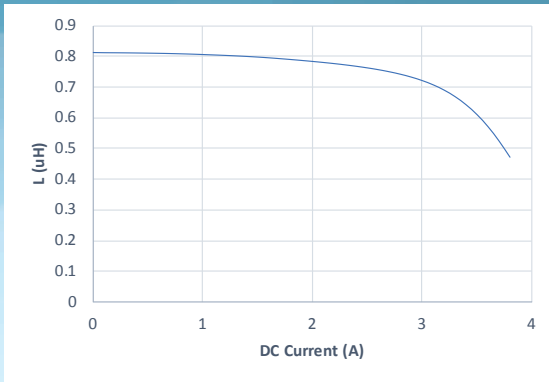
HNT2512MTR47



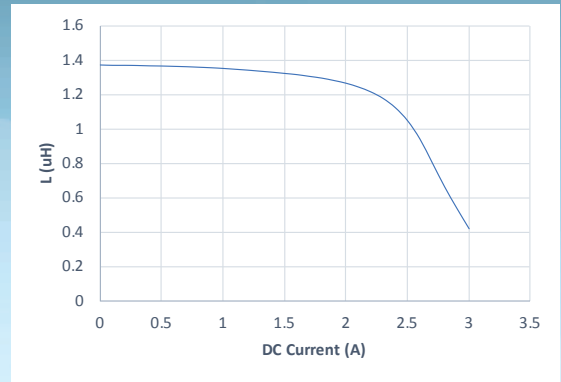
HNT2512MTR68



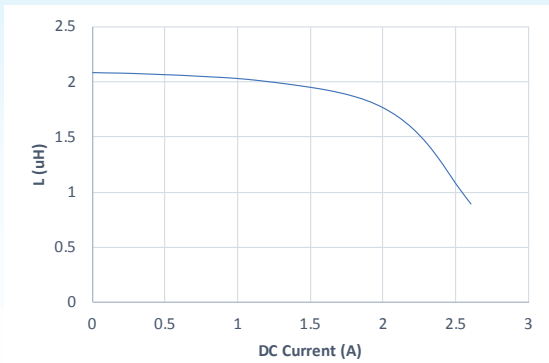
HNT2512MT1R0



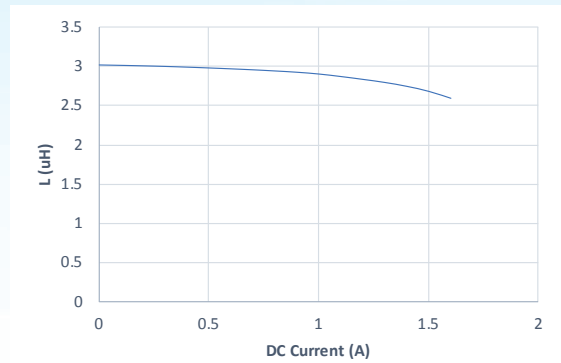
HNT2512MT1R5



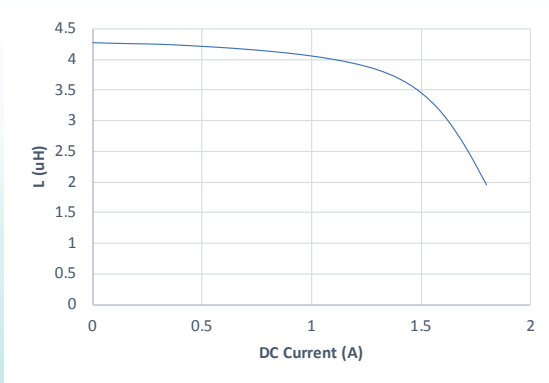
HNT2512MT2R2



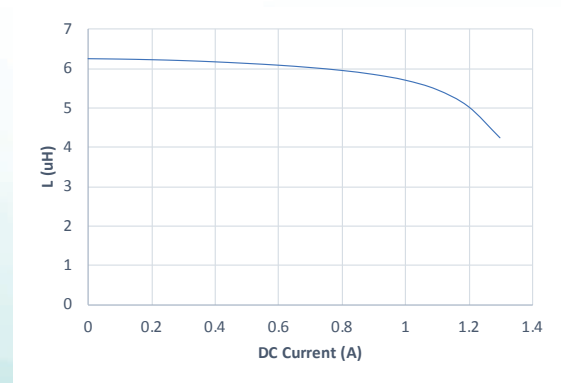
HNT2512MT3R3



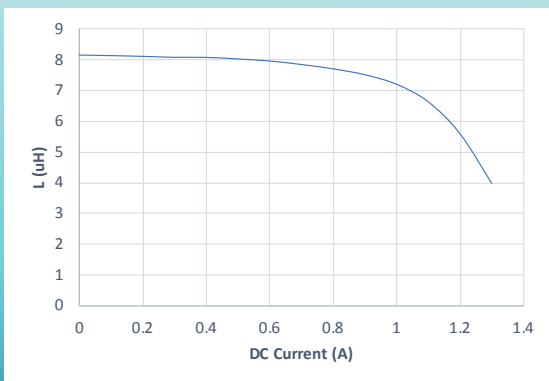
HNT2512MT4R7



HNT2512MT6R8



HNT2512MT100



Ordering information

HNT - 2508- M - T - 1R0

(1) (2) (3) (4) (5)

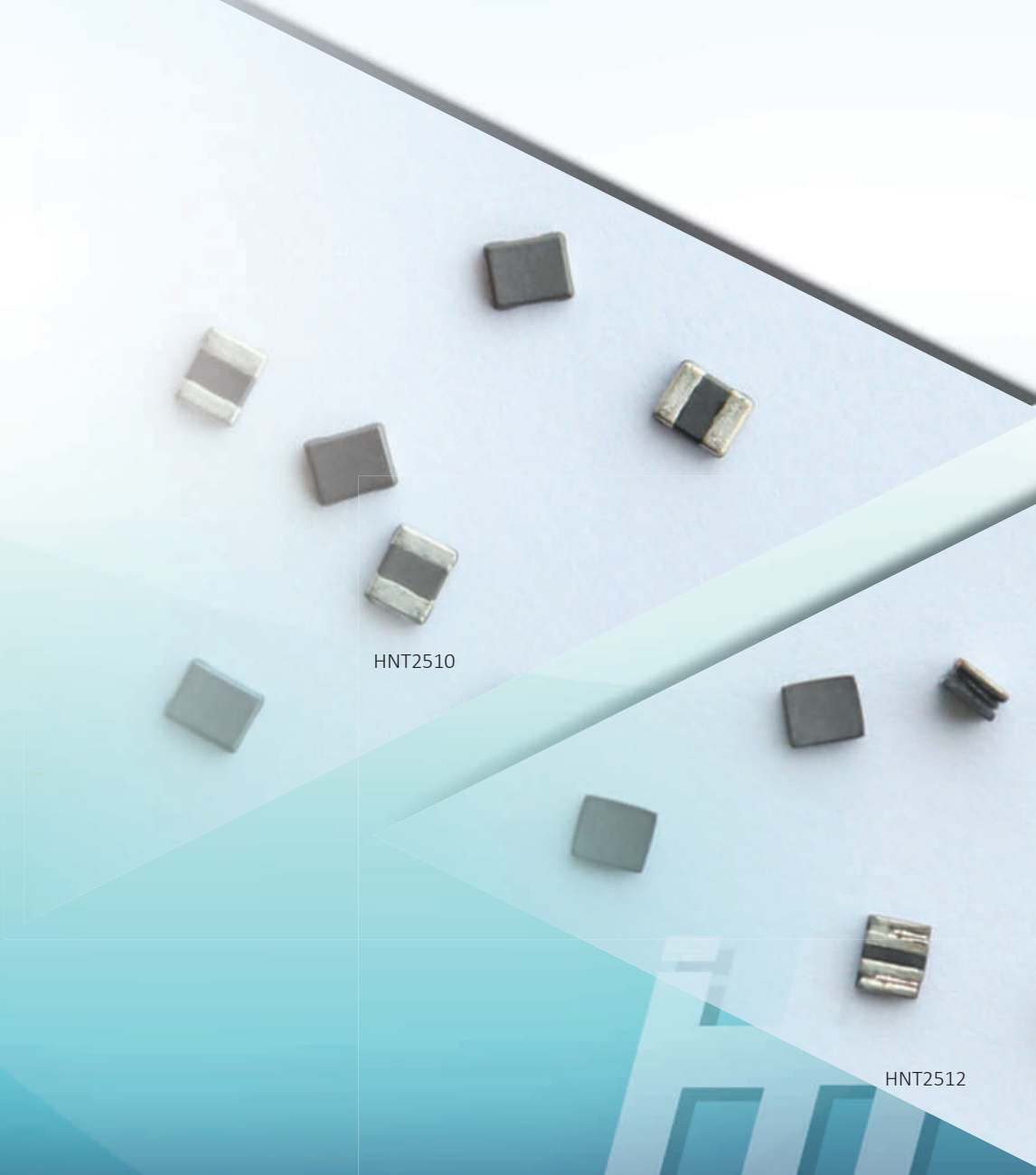
- (1) Type : SMD Power Inductor
- (2) Size : 2508 is size
- (3) Tolerance : M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : R47 for 0.47uH, 1R0 for 1.0uH, 100 for 10uH...

Characteristics

- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range : -40°C to 105°C (Including self-temperature rise)

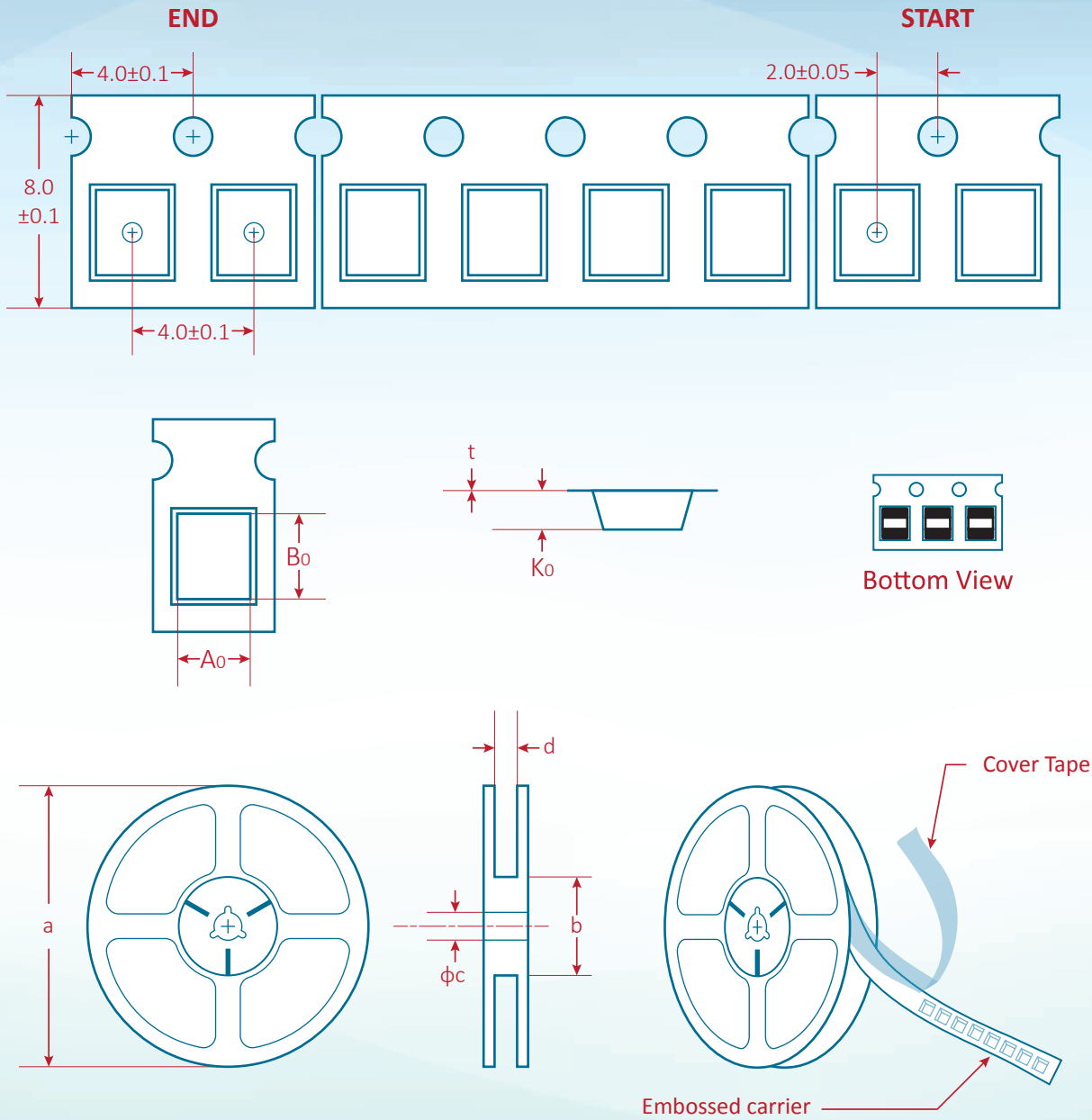
Test equipment

- L : Agilent/ HP4291B+ Agilent/ HP16197A, 1MHz 200mV
- DCR : Digital Milliohm Meter Agilent/ HP4338B
- Isat & Irms : Microtest 6377, 1MHz 200mV



Packing

Dimensions in mm



Item	t	A ₀	B ₀	K ₀	a	b	φ _c	d
HNT2508	0.23 ±0.05	2.15 ±0.1	2.7 ±0.1	0.95 ±0.1	178 ±2.0	50 Min.	13 ±0.8	8.4 ±1.0
HNT2510	0.23 ±0.05	2.45 ±0.1	3.1 ±0.1	1.4 ±0.1	178 ±2.0	50 Min.	13 ±0.8	8.4 ±1.0
HNT2512	0.23 ±0.05	2.45 ±0.1	3.1 ±0.1	1.4 ±0.1	178 ±2.0	50 Min.	13 ±0.8	8.4 ±1.0

Reel

Q'ty(Pcs)

2,000

3 x 3

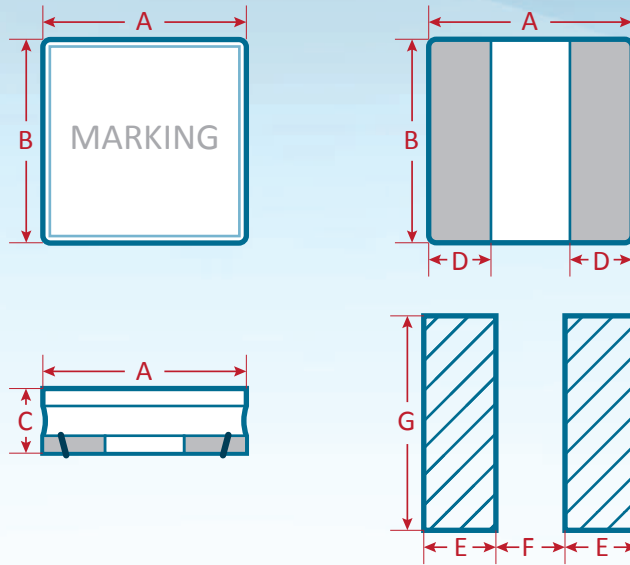
HNT3012 / HNT3015

P.12 - P.17

HNT Series

SMD Power Inductor

Shape and Dimensions(mm):



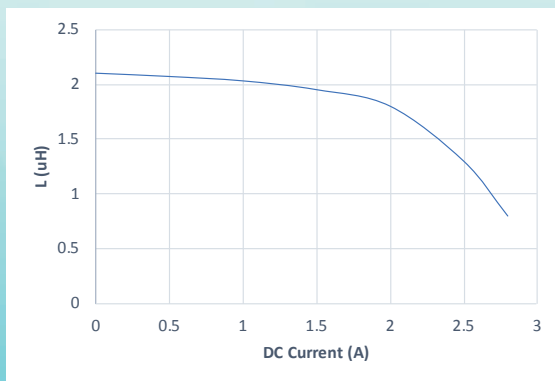
Item	A	B	C	D	E	F	G
HNT3012	3.0±0.2	3.0±0.2	1.2 Max.	1.0 Typ.	1.1 Typ.	1.0 Typ.	3.2 Typ.
HNT3015	3.0±0.2	3.0±0.2	1.5 Max.	1.0 Typ.	1.1 Typ.	1.0 Typ.	3.2 Typ.

HNT3012

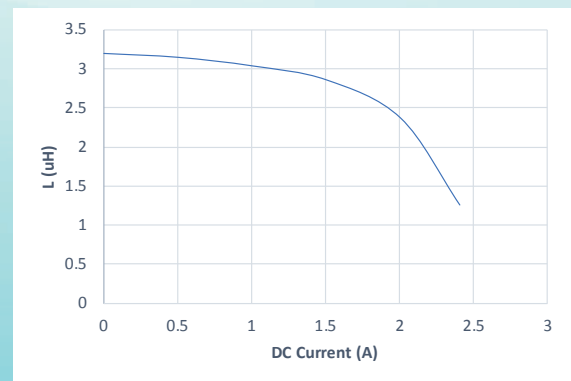


Part No.	Inductance (uH)	DCR(mΩ) ±30%	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT3012MT2R2	2.2	92	2.1	1.89	2.0	1.8	20
HNT3012MT3R3	3.3	130	1.84	1.65	1.8	1.62	20
HNT3012MT4R7	4.7	180	1.56	1.4	1.52	1.36	20
HNT3012MT6R8	6.8	250	1.32	1.18	1.3	1.17	20
HNT3012MT100	10	420	1.06	0.95	1.0	0.9	20
HNT3012MT150	15	560	0.82	0.73	0.8	0.72	20
HNT3012MT220	22	860	0.64	0.57	0.62	0.55	20

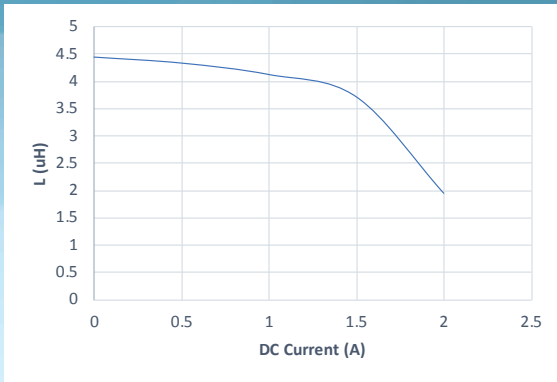
HNT3012MT2R2



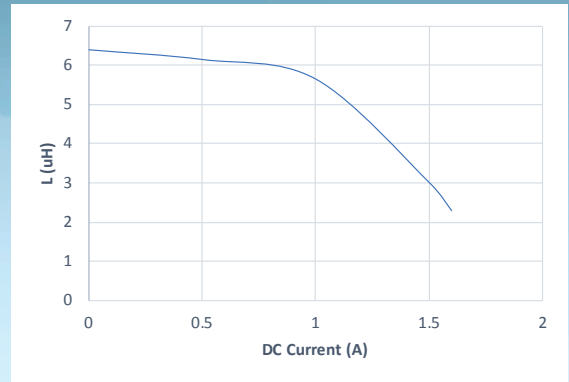
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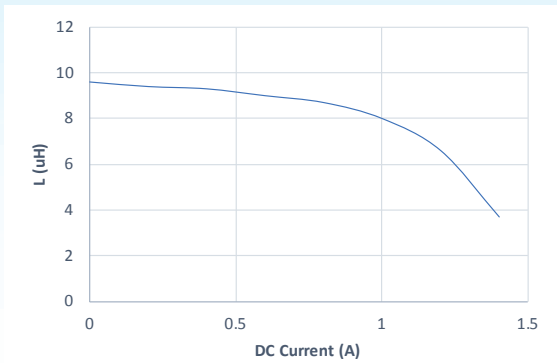
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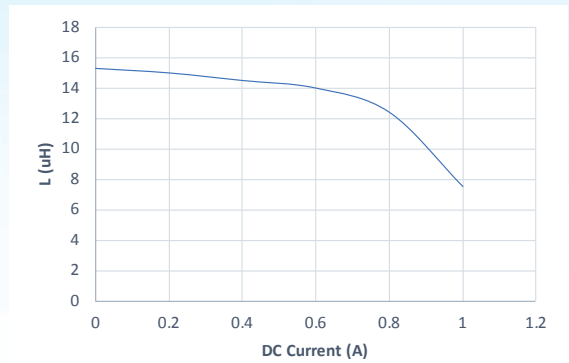
HNT3012MT6R8



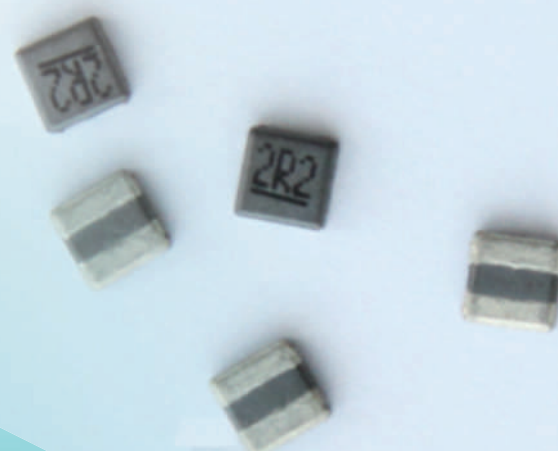
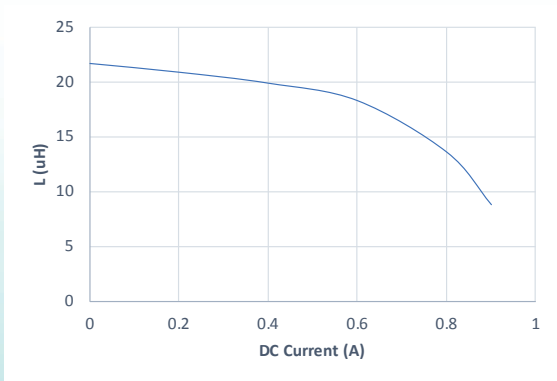
HNT3012MT100



HNT3012MT150



HNT3012MT220

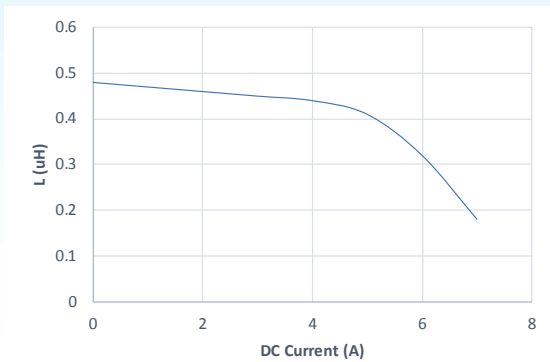


HNT3012

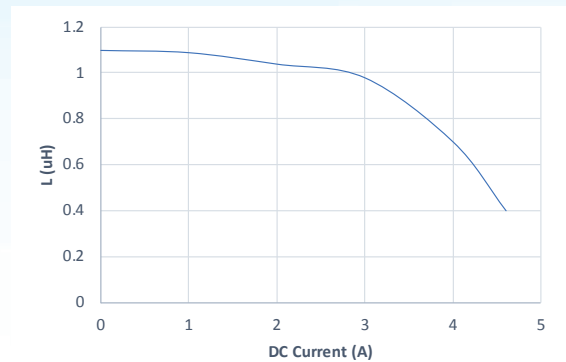
HNT3015  

Part No.	Inductance (μ H)	DCR($m\Omega$) $\pm 30\%$	Isat(A)		Irms(A)		Tolerance ($\pm\%$)
			Typ.	Max.	Typ.	Max.	
HNT3015MTR47	0.47	36	4.7	4.23	4.0	3.6	20
HNT3015MT1R0	1.0	54	3.4	3.06	3.0	2.7	20
HNT3015MT1R5	1.5	63	3.0	2.7	2.6	2.34	20
HNT3015MT2R2	2.2	90	2.3	2.07	2.0	1.8	20
HNT3015MT3R3	3.3	125	1.9	1.71	1.8	1.62	20
HNT3015MT4R7	4.7	170	1.58	1.42	1.52	1.36	20
HNT3015MT6R8	6.8	235	1.34	1.2	1.3	1.17	20
HNT3015MT100	10	360	1.06	0.95	1.0	0.9	20
HNT3015MT150	15	550	0.9	0.81	0.8	0.72	20
HNT3015MT220	22	770	0.76	0.68	0.65	0.58	20
HNT3015MT330	33	930	0.65	0.58	0.6	0.54	20

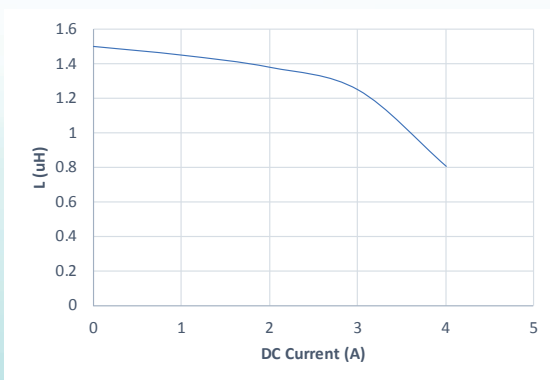
HNT3015MTR47



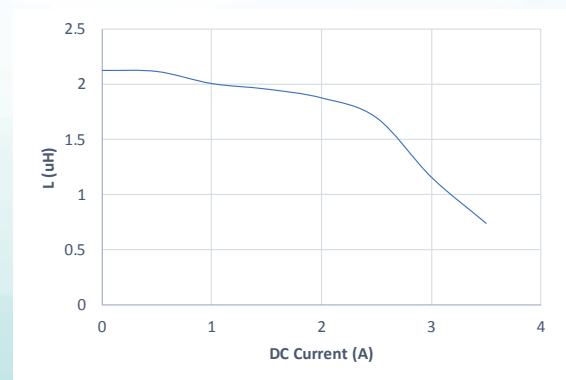
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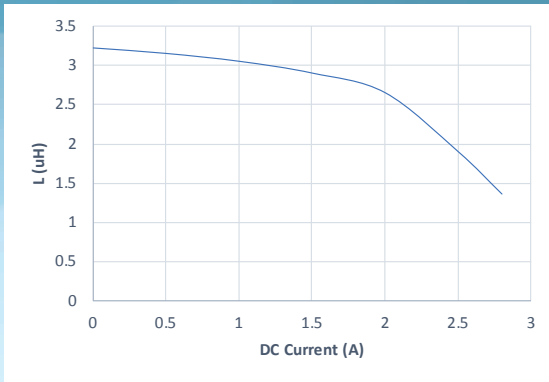
HNT3015MT1R5



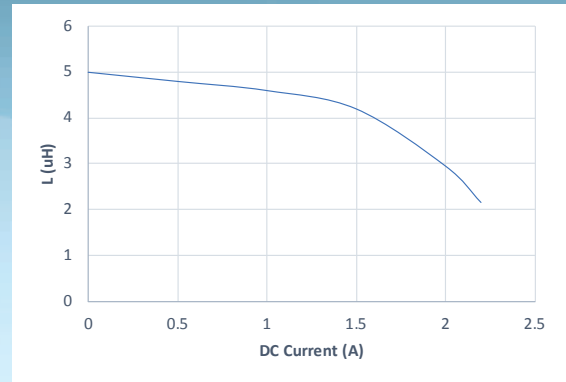
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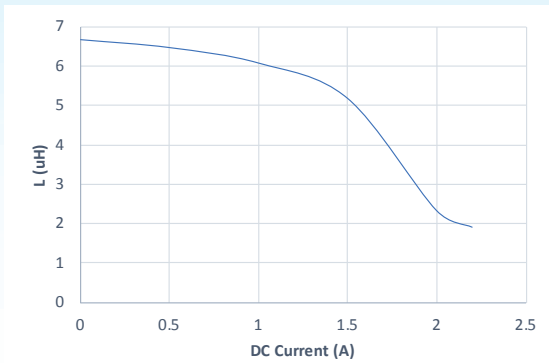
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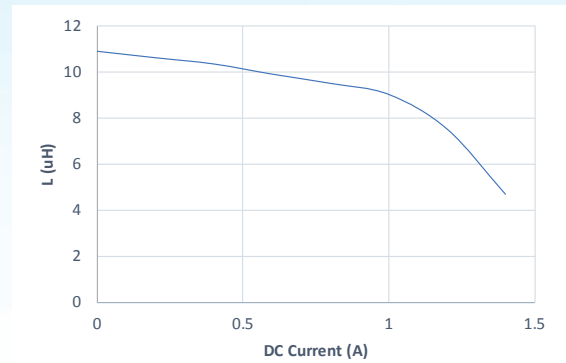
HNT3015MT4R7



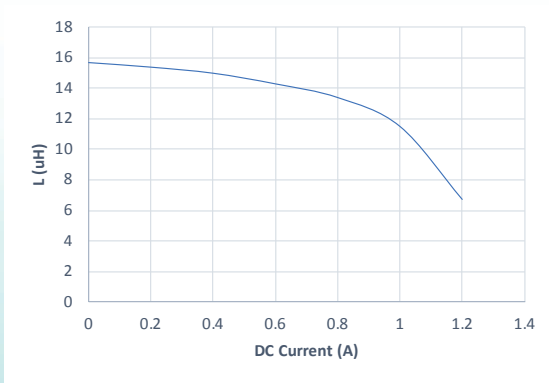
HNT3015MT6R8



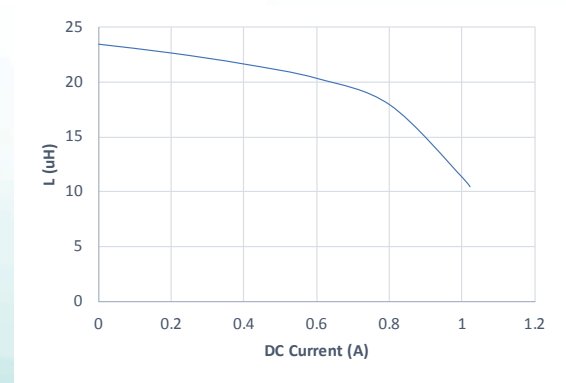
HNT3015MT100



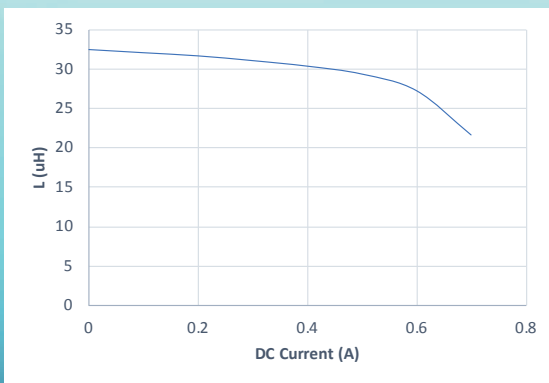
HNT3015MT150



HNT3015MT220



HNT3015MT330



Ordering information

HNT - 3012 - M - T - 2R2

(1) (2) (3) (4) (5)

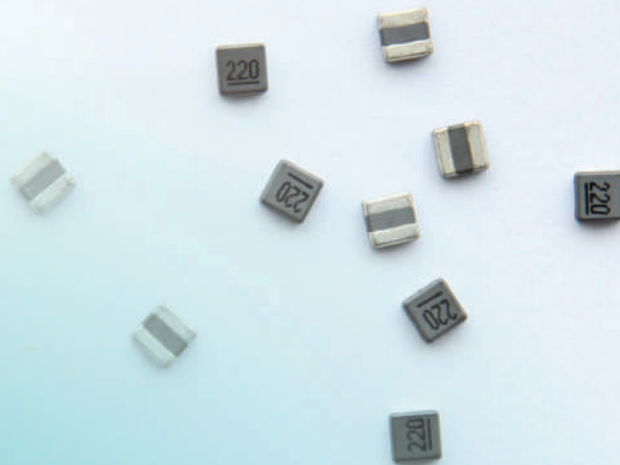
- (1) Type : SMD Power Inductor
- (2) Size : 3012 is size
- (3) Tolerance : M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : R47 for 0.47uH, 1R0 for 1.0uH, 100 for 10uH...

Characteristics

- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range : -55°C to 125°C (Including self-temperature rise)

Test equipment

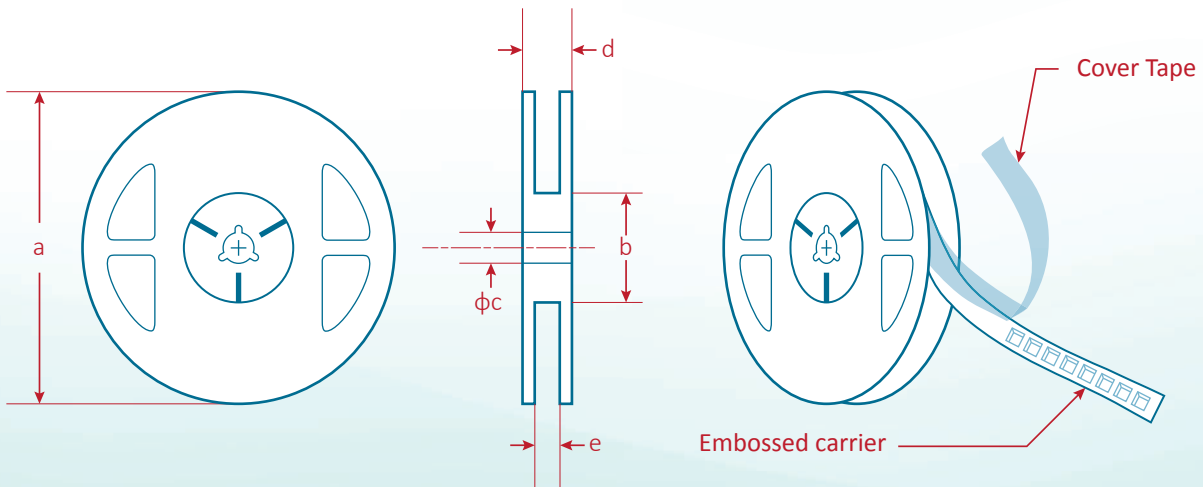
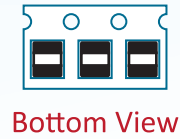
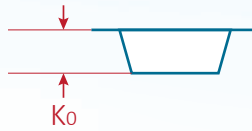
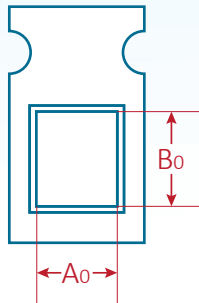
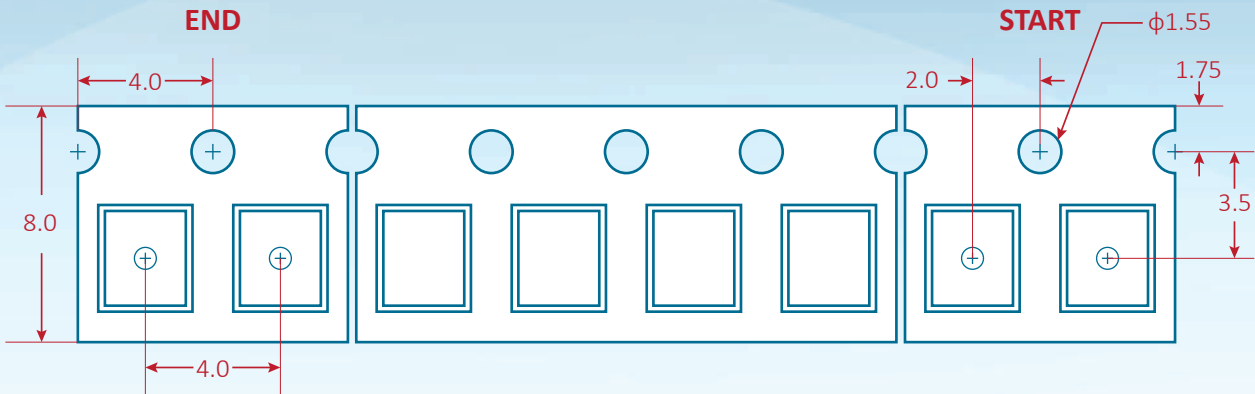
- L : Agilent/ HP4287A+ Agilent/ HP16197A, 1MHz 200mV
- DCR : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/ HP4284A, 1MHz 200mV



HNT3015

Packing

Dimensions in mm



Item	A ₀	B ₀	K ₀	a	b	φ _c	d	e
HNT3012	3.2	3.2	1.4	180	60	13	14.4	8.4
HNT3015	3.15	3.15	1.6	180	60	13	14.4	8.4
Reel								
Q'ty(Pcs)								
2,000								

4 x 4

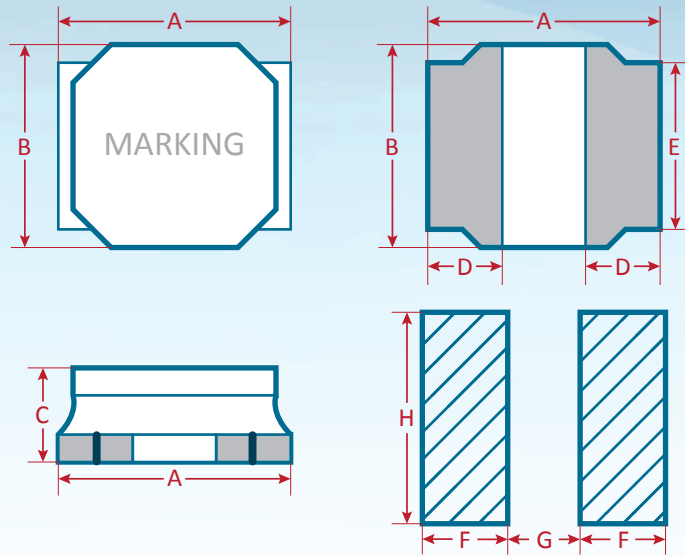
HNT4018

P.19 - P.23

HNT Series

SMD Power Inductor

Shape and Dimensions(mm):



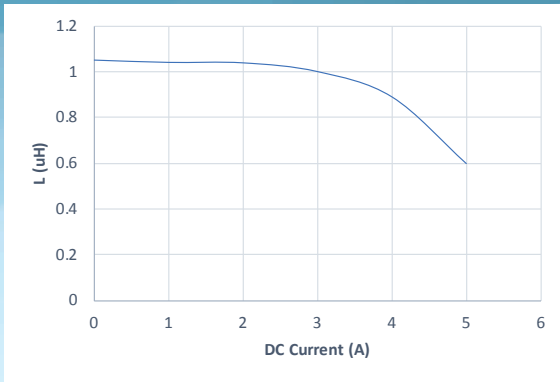
Item	A	B	C	D	E	F	G	H
HNT4018	4.0±0.2	4.0±0.2	1.8 ^{+0.2} _{-0.3}	1.3±0.3	3.6 Typ.	1.2 Typ.	1.6 Typ.	3.7 Typ.

HNT4018

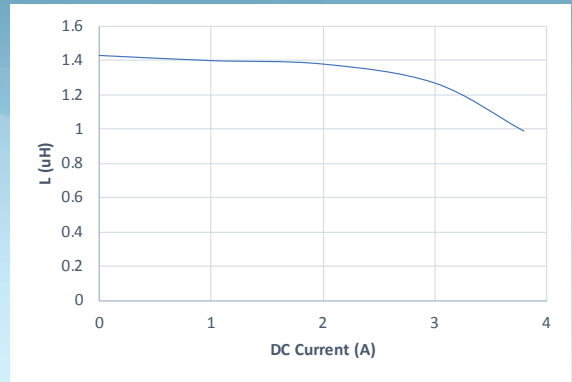


Part No.	Inductance (uH)	DCR(mΩ) ±20%	Isat(A)		I _{rms} (A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT4018MT1R0	1.0	32	4.1	3.69	2.8	2.52	20
HNT4018MT1R5	1.5	40	3.3	2.97	2.6	2.34	20
HNT4018MT1R8	1.8	55	2.8	2.5	2.5	2.2	20
HNT4018MT2R2	2.2	60	2.8	2.52	2.5	2.25	20
HNT4018MT3R3	3.3	70	2.2	1.98	2.1	1.89	20
HNT4018MT3R6	3.6	75	2.1	1.89	1.9	1.71	20
HNT4018MT3R9	3.9	75	2.1	1.89	1.9	1.71	20
HNT4018MT4R7	4.7	90	2.0	1.8	1.7	1.53	20
HNT4018MT6R8	6.8	110	1.6	1.44	1.5	1.35	20
HNT4018MT100	10	170	1.4	1.26	1.2	1.08	20
HNT4018MT150	15	250	1.0	0.9	1.0	0.9	20
HNT4018MT220	22	350	0.9	0.81	0.85	0.76	20
HNT4018MT330	33	530	0.8	0.72	0.7	0.63	20
HNT4018MT470	47	720	0.7	0.63	0.56	0.5	20
HNT4018MT680	68	1000	0.56	0.5	0.45	0.4	20
HNT4018MT101	100	1500	0.46	0.41	0.38	0.34	20
HNT4018MT151	150	2500	0.35	0.31	0.3	0.27	20
HNT4018MT221	220	4000	0.28	0.25	0.23	0.2	20

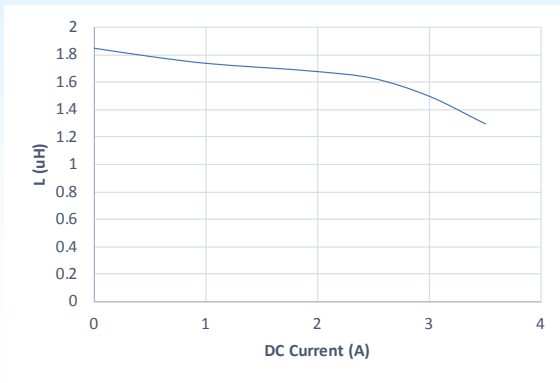
HNT4018MT1R0



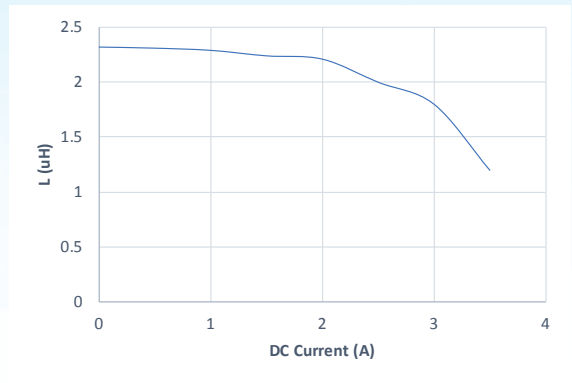
HNT4018MT1R5



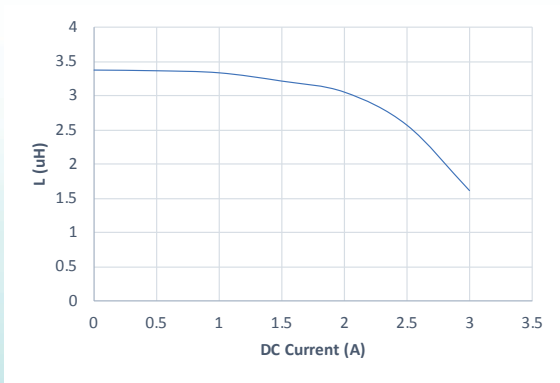
HNT4018MT1R8



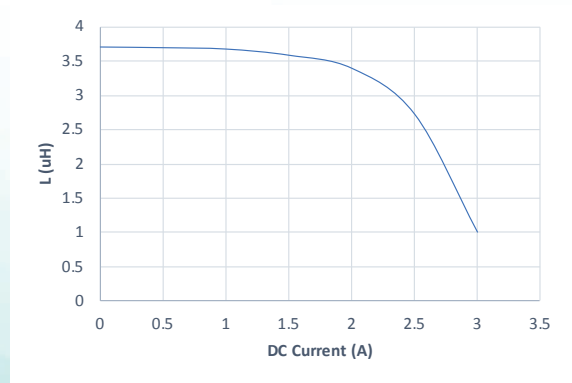
HNT4018MT2R2



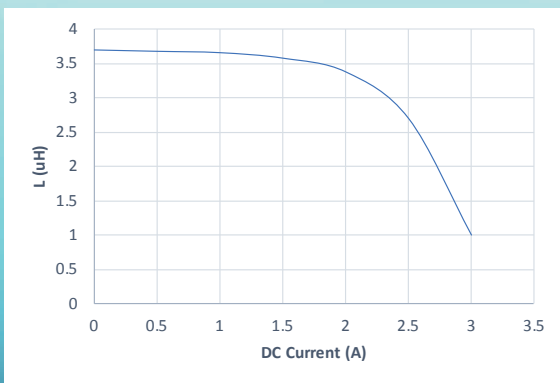
HNT4018MT3R3



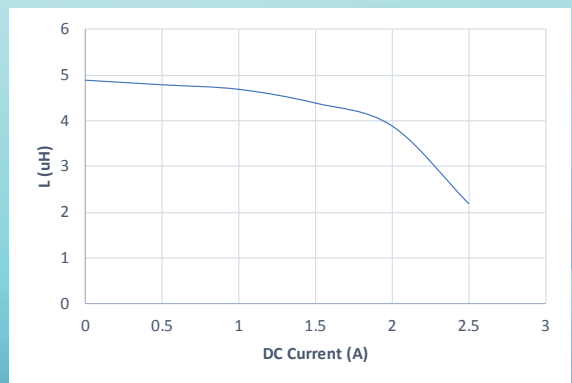
HNT4018MT3R6



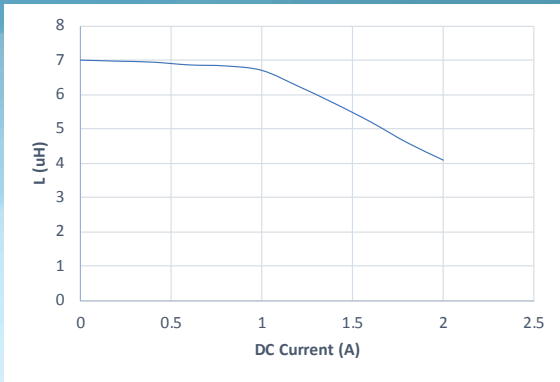
HNT4018MT3R9



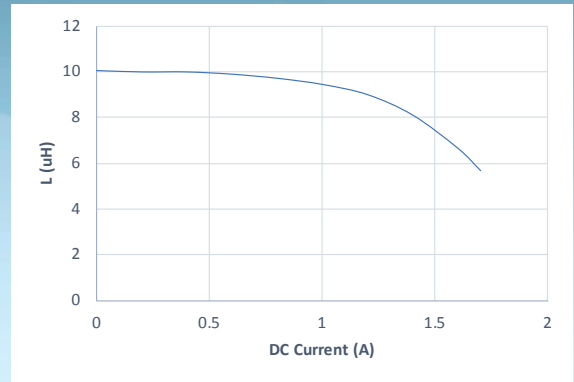
HNT4018MT4R7



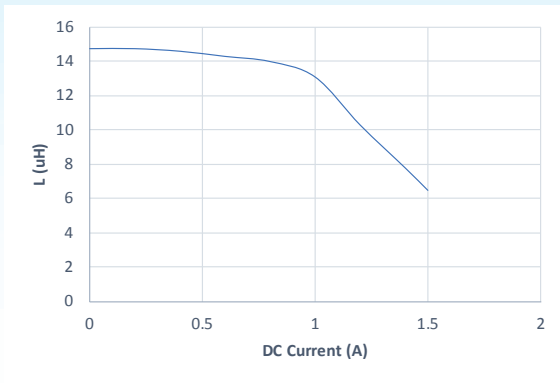
HNT4018MT6R8



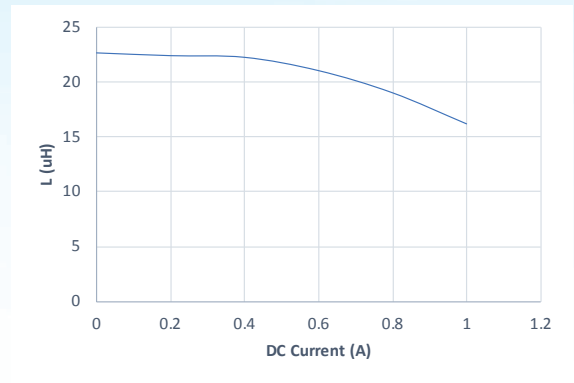
HNT4018MT100



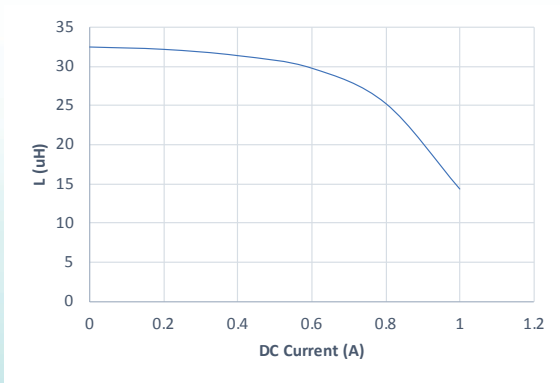
HNT4018MT150



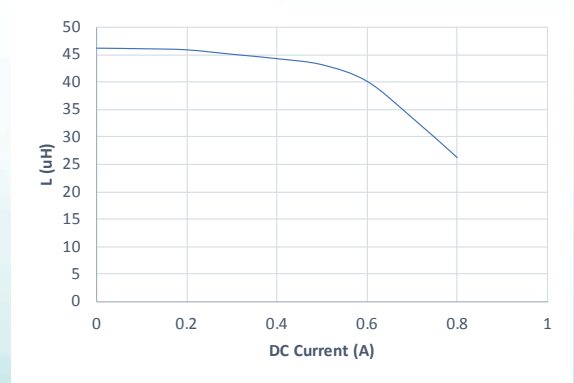
HNT4018MT220



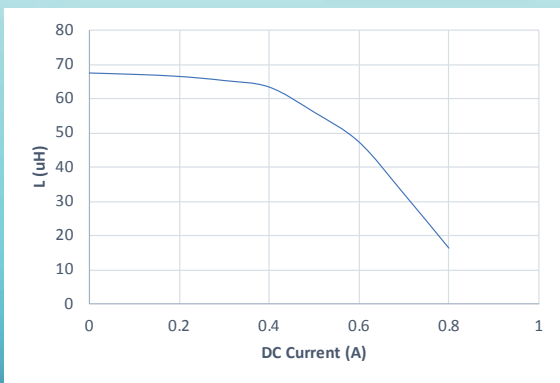
HNT4018MT330



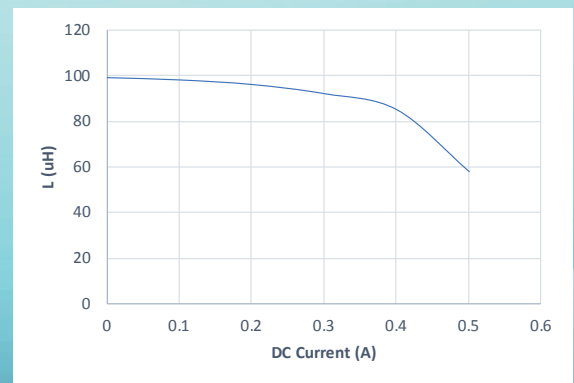
HNT4018MT470



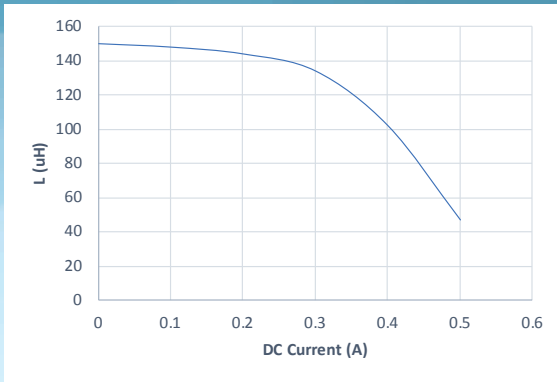
HNT4018MT680



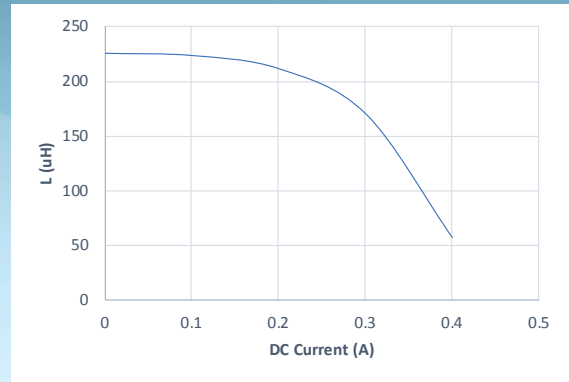
HNT4018MT101



HNT4018MT151



HNT4018MT221



Ordering information

HNT - 4018 - M - T - 1R0

(1) (2) (3) (4) (5)

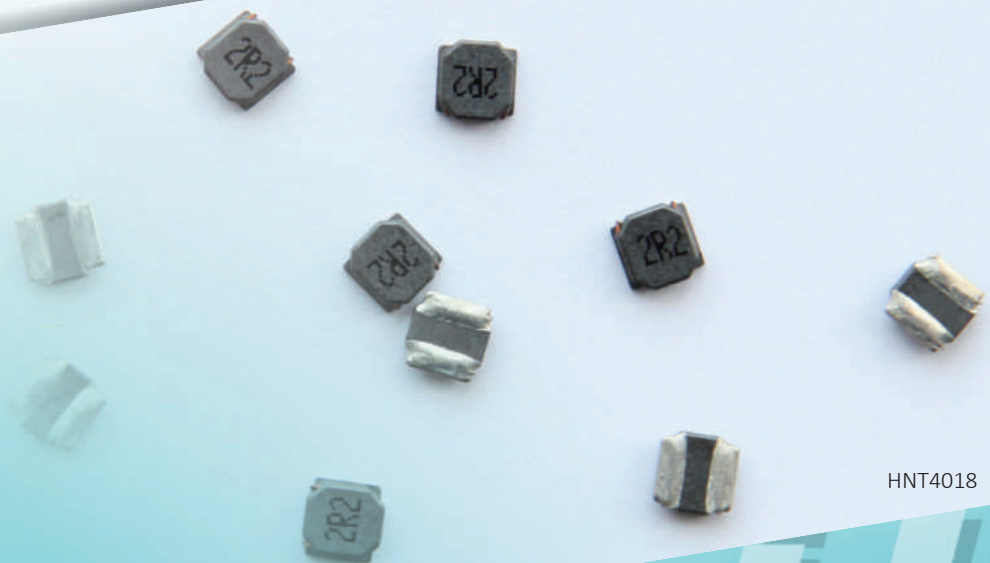
- (1) Type : SMD Power Inductor
- (2) Size : 4018 is size
- (3) Tolerance : M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : 1R0 for 1uH, 100 for 10uH, 101 for 100uH...

Characteristics

- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range : -55°C to 125°C (Including self-temperature rise)

Test equipment

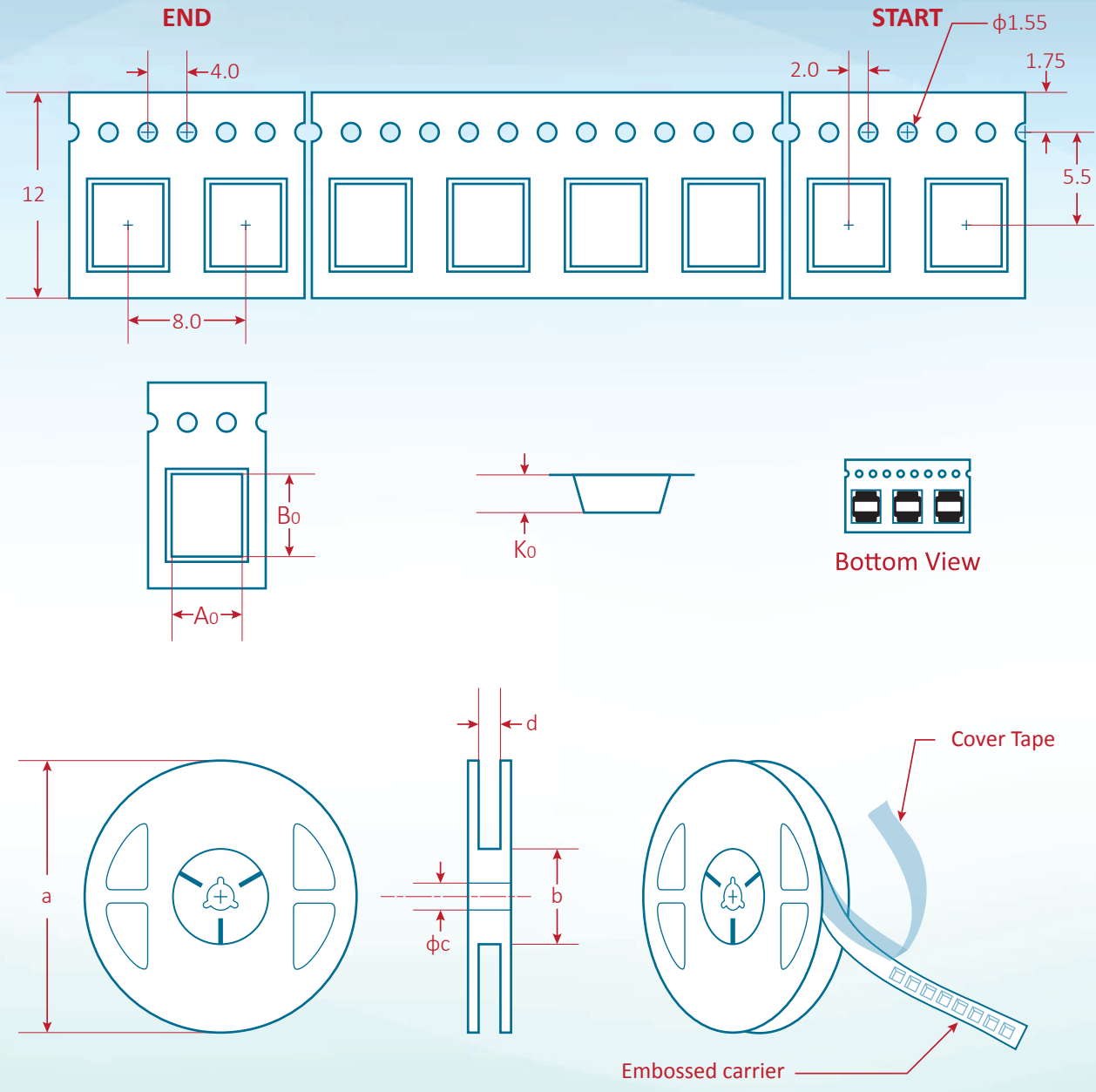
- L : Agilent/ HP4284A+ Agilent/ HP42841A, 100kHz, 1V
- DCR : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/ HP4284A, 100kHz, 1V



HNT4018

Packing

Dimensions in mm



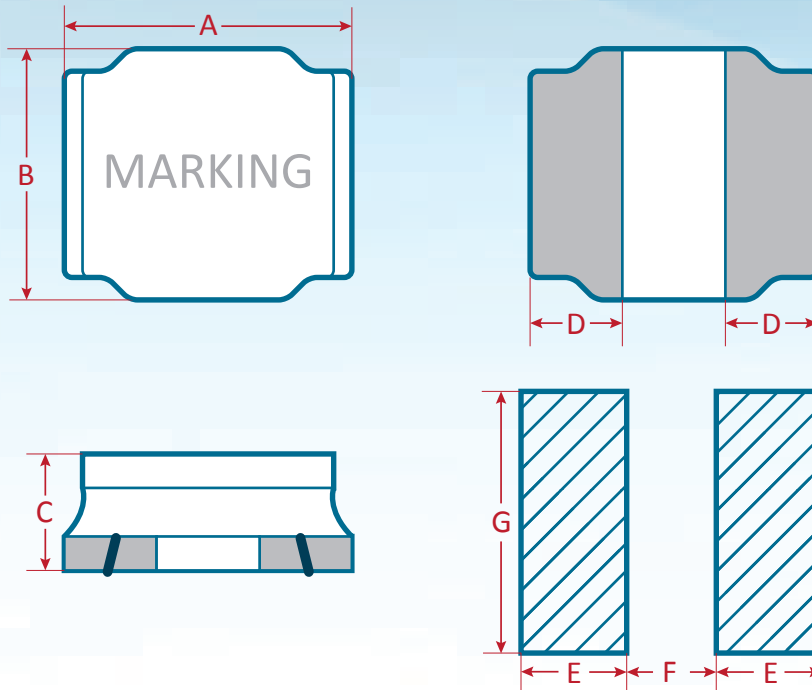
Item	A_0	B_0	K_0	a	b	ϕc	d
HNT4018	4.25	4.25	2.1	178	60	13	13.2
Reel							
Q'ty(Pcs)							
800							

5 x 5

HNT5020

P.25 - P.28

Shape and Dimensions(mm):



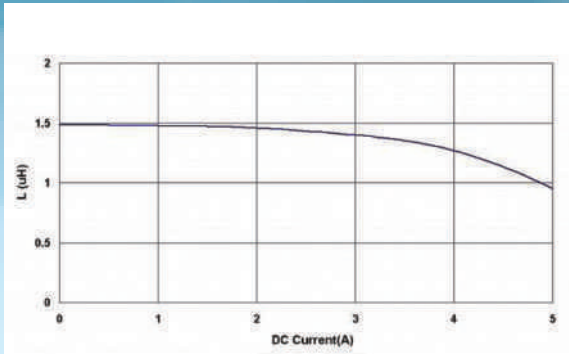
Item	A	B	C	D	E	F	G
HNT5020	5.0±0.2	5.0±0.2	2.0 ^{+0.2} _{-0.3}	1.35 Typ.	1.5 Typ.	2.1 Typ.	4.0 Typ.

HNT5020

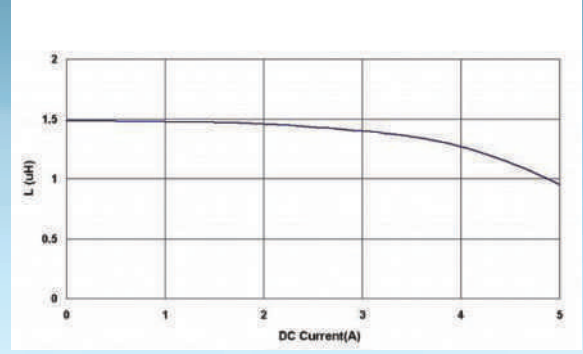


Part No.	Inductance (uH)	DCR(mΩ) ±20%	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT5020MT1R0	1.0	21	5.1	4.59	4.0	3.6	20
HNT5020MT1R2	1.2	21	4.8	4.32	3.8	3.42	20
HNT5020MT1R5	1.5	26	4.2	3.78	3.5	3.15	20
HNT5020MT2R2	2.2	35	3.4	3.06	3.2	2.88	20
HNT5020MT3R3	3.3	48	3.0	2.7	2.8	2.52	20
HNT5020MT4R7	4.7	60	2.2	1.98	2.2	1.98	20
HNT5020MT5R6	5.6	82	2.05	1.84	2.0	1.8	20
HNT5020MT6R8	6.8	90	2.0	1.8	1.8	1.62	20
HNT5020MT100	10	120	1.6	1.44	1.6	1.44	20
HNT5020MT150	15	190	1.3	1.17	1.2	1.08	20
HNT5020MT220	22	260	1.0	0.9	1.0	0.9	20
HNT5020MT330	33	460	0.8	0.72	0.75	0.67	20
HNT5020MT470	47	580	0.65	0.58	0.65	0.6	20

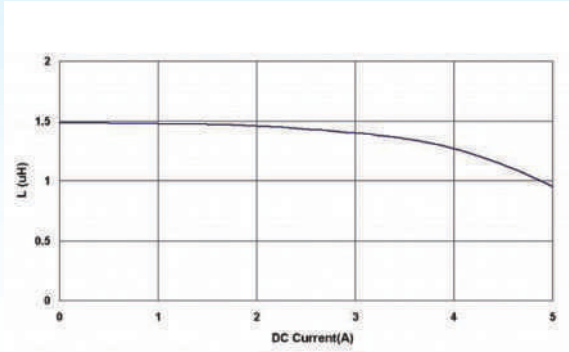
HNT5020MT1R0



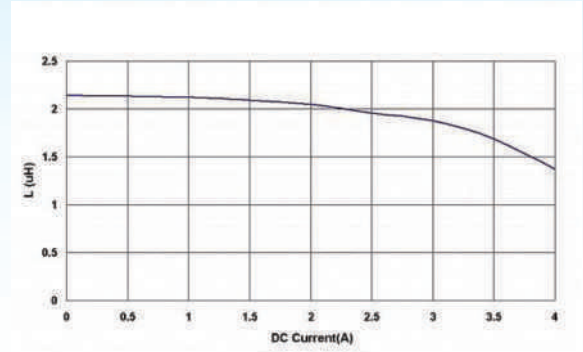
HNT5020MT1R2



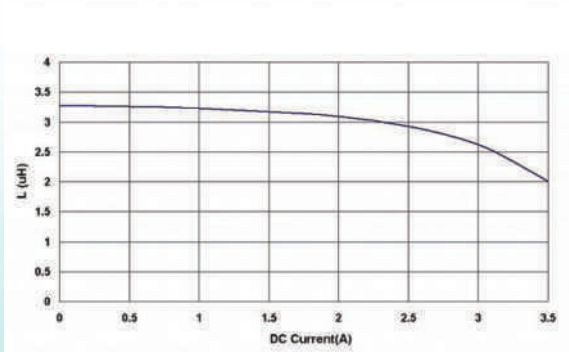
HNT5020MT1R5



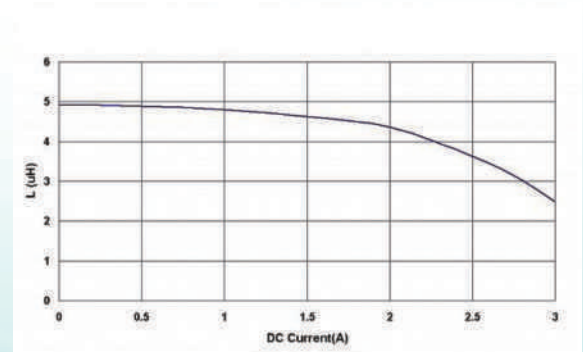
HNT5020MT2R2



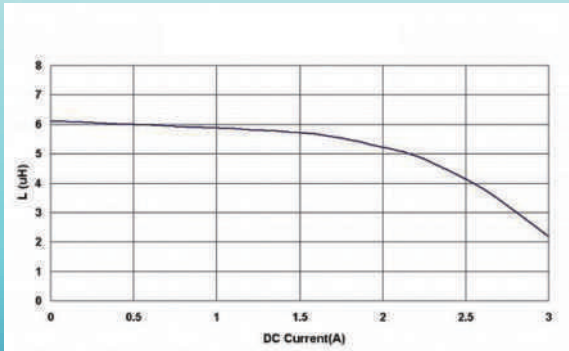
HNT5020MT3R3



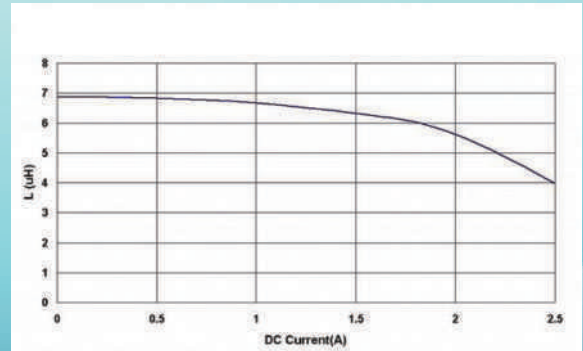
HNT5020MT4R7



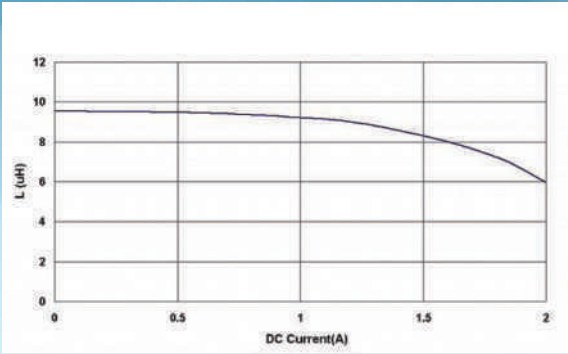
HNT5020MT5R6



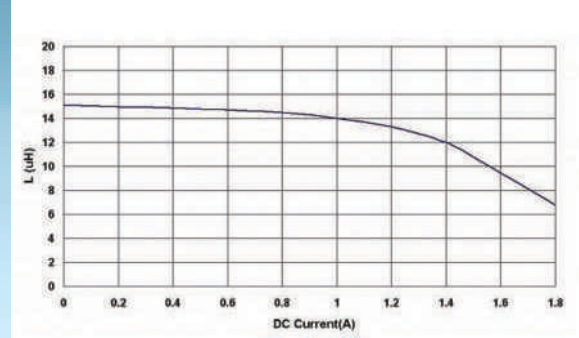
HNT5020MT6R8



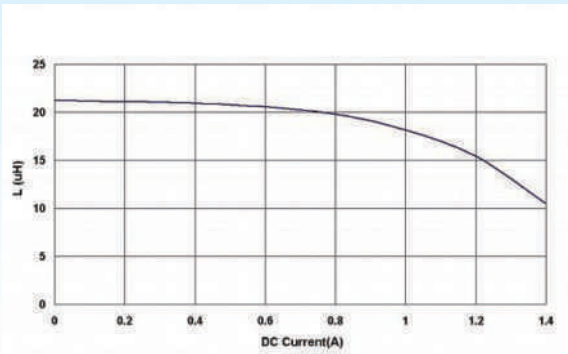
HNT5020MT100



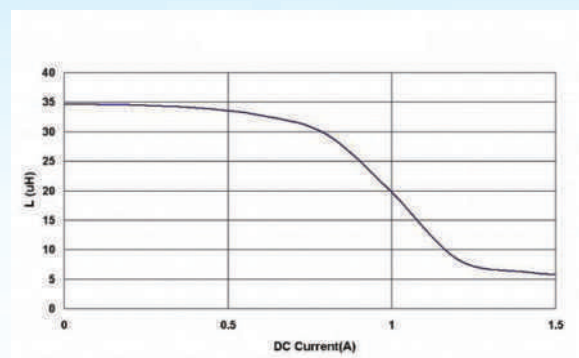
HNT5020MT150



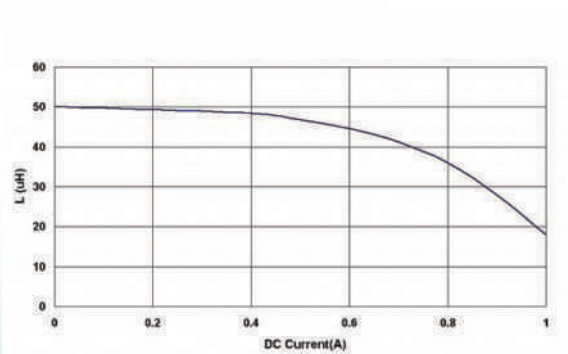
HNT5020MT220



HNT5020MT330



HNT5020MT470



Ordering information

HNT - 5020 - M - T - 1R0

(1) (2) (3) (4) (5)

- (1) Type : Surface Mountable Type
- (2) Size : 5020 is size
- (3) Tolerance : M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : 1R0 for 1.0uH, 100 for 10uH...

Characteristics

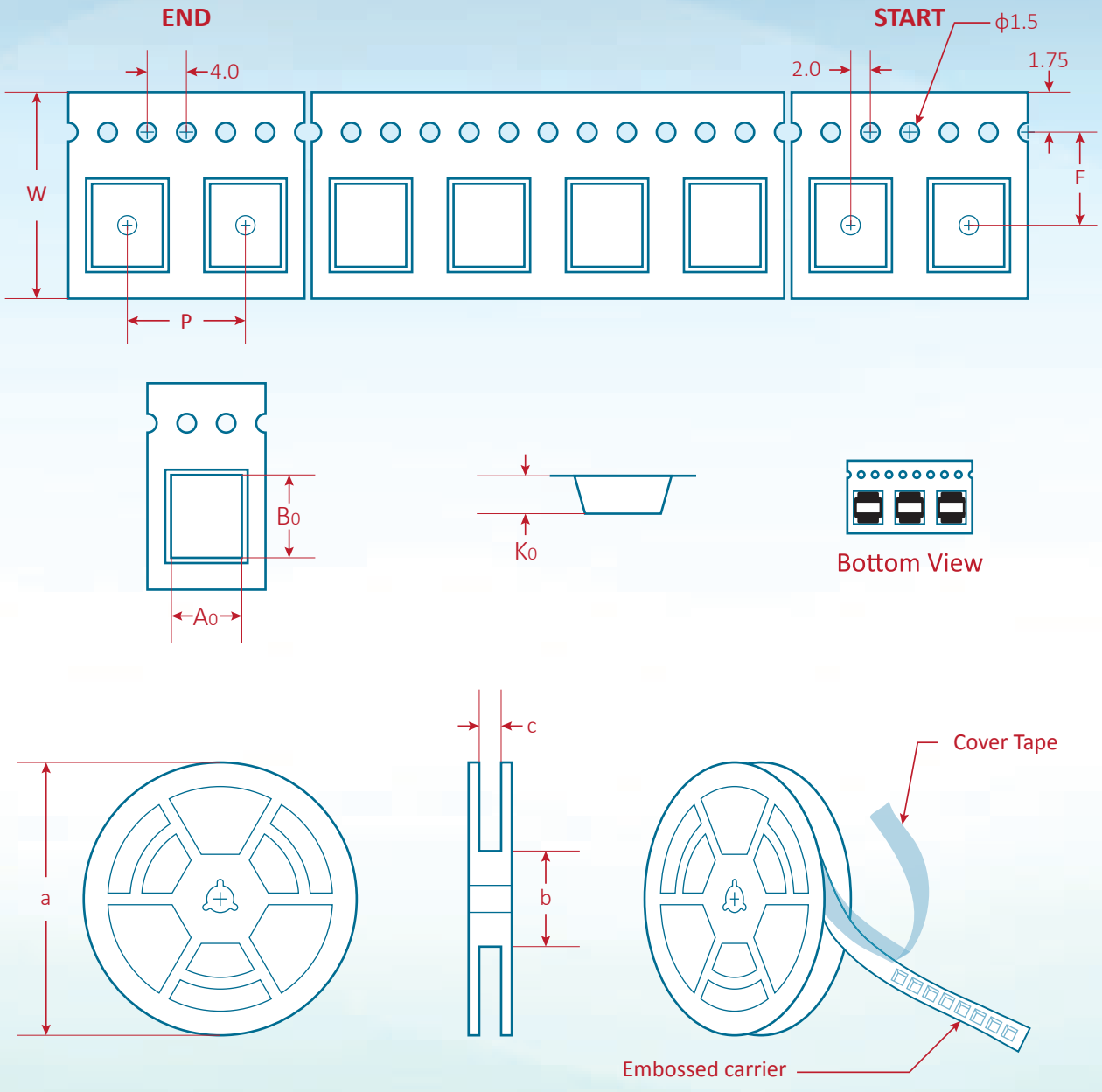
- Isat : Based on Inductance decrease 30%
- Irms : Based on Temperature increase 40°C
- Operating temperature range : -40 to +125°C (Including self-temperature rise)
- Storage Temp : 0°C to +40°C (RH 70% Max)

Test equipment

- Test Frequency : 100KHz/ 1.0V
- L : GKT-3250
- Isat&Irms : CH2816+WR7210
- DCR: GKT-502BC

Packing

Dimensions in mm



Item	F	W	P	Ao	Bo	Ko	a	b	c
HNT5020	5.5	12	8.0	5.3	5.3	2.3	330	100	12.5
Reel									
Q'ty(Pcs)									
2,000									

5 x 5

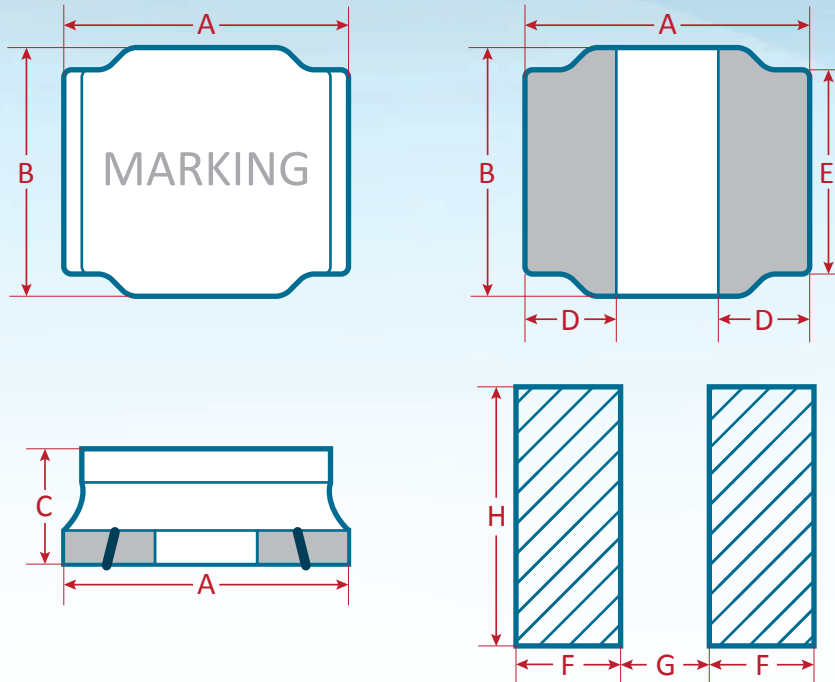
HNT5040

P.30 - P.34

HNT Series

SMD Power Inductor

Shape and Dimensions(mm):

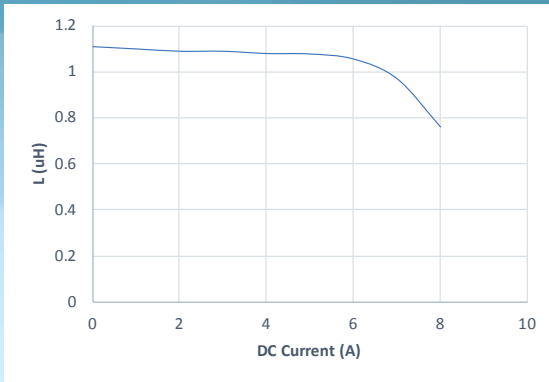


Item	A	B	C	D	E	F	G	H
HNT5040	5.0±0.2	5.0±0.2	4.0 ^{+0.2} _{-0.3}	1.6±0.3	4.0 Typ.	1.5 Typ.	2.1 Typ.	4.0 Typ.

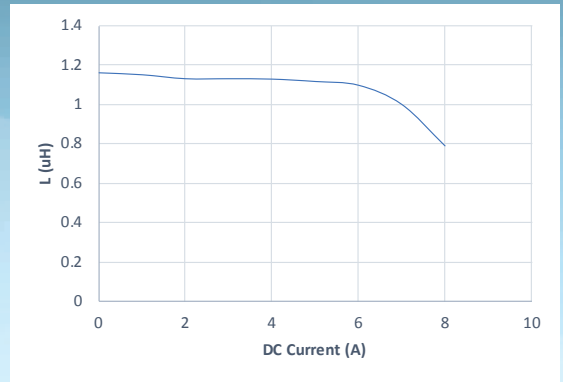
HNT5040

Part No.	Inductance (uH)	DCR(mΩ) ±30%	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT5040NT1R0	1.0	14	7.5	6.75	4.6	4.14	30
HNT5040MT1R2	1.2	15	7.4	6.66	4.5	4.05	20
HNT5040MT1R5	1.5	16	7.1	6.39	4.4	3.96	20
HNT5040MT2R2	2.2	21	5.7	5.13	3.7	3.33	20
HNT5040MT3R0	3.0	26	4.8	4.32	3.5	3.15	20
HNT5040MT3R3	3.3	26	4.8	4.32	3.5	3.15	20
HNT5040MT3R6	3.6	31	4.2	3.7	3.3	2.9	20
HNT5040MT4R7	4.7	32	4.2	3.78	3.2	2.88	20
HNT5040MT6R8	6.8	50	3.3	2.97	2.4	2.16	20
HNT5040MT100	10	60	2.8	2.52	2.2	1.98	20
HNT5040MT150	15	90	2.3	2.07	1.8	1.62	20
HNT5040MT220	22	135	1.8	1.62	1.4	1.26	20
HNT5040MT270	27	180	1.6	1.44	1.2	1.08	20
HNT5040MT330	33	190	1.5	1.35	1.1	0.99	20
HNT5040MT470	47	310	1.2	1.08	0.9	0.81	20
HNT5040MT680	68	540	1.0	0.9	0.78	0.7	20
HNT5040MT101	100	800	0.7	0.6	0.6	0.5	20

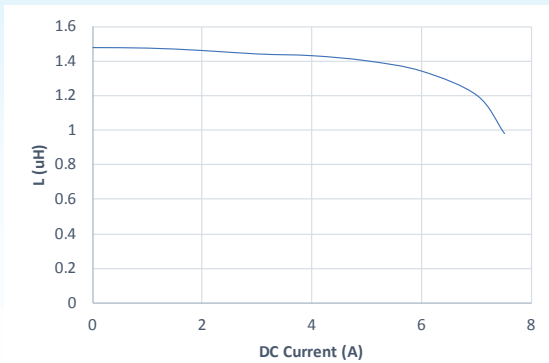
HNT5040NT1R0



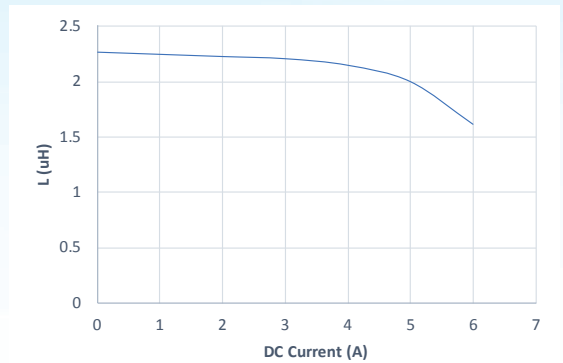
HNT5040MT1R2



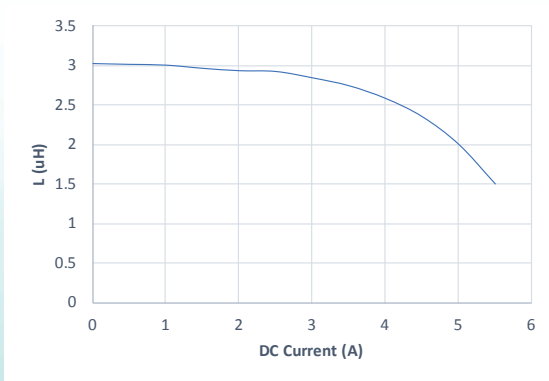
HNT5040MT1R5



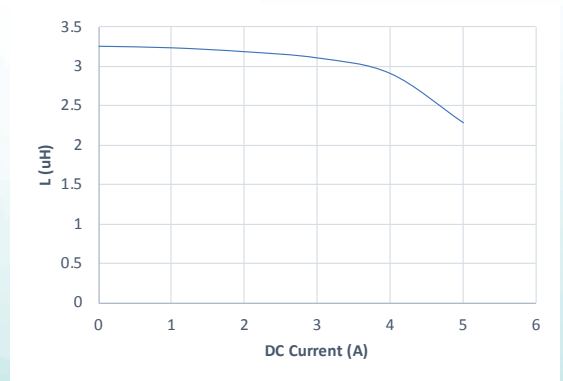
HNT5040MT2R2



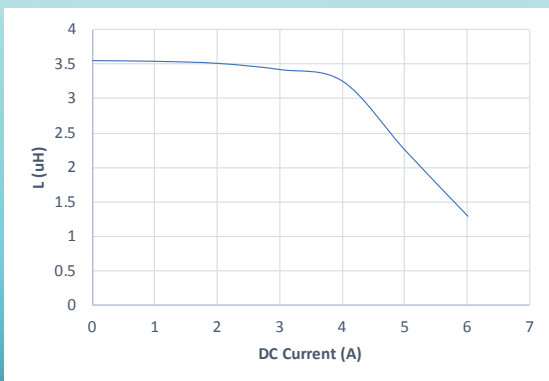
HNT5040MT3R0



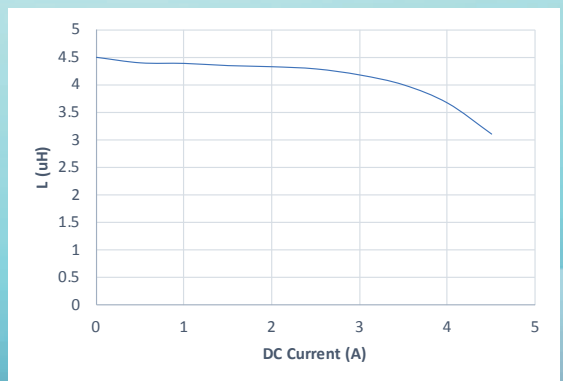
HNT5040MT3R3



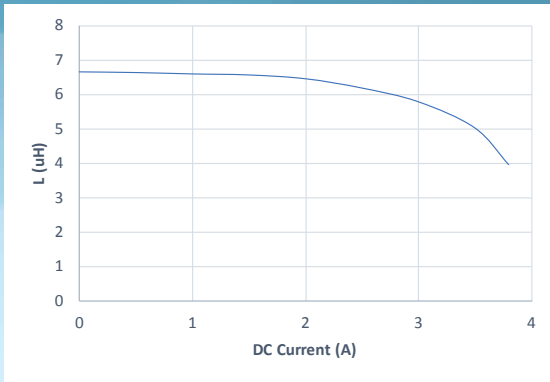
HNT5040MT3R6



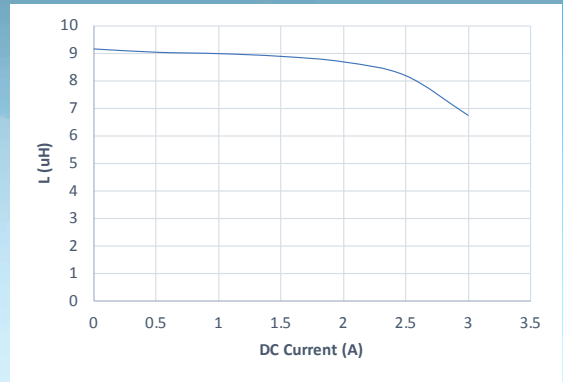
HNT5040MT4R7



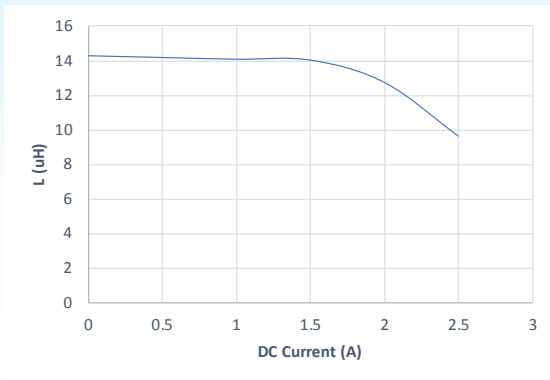
HNT5040MT6R8



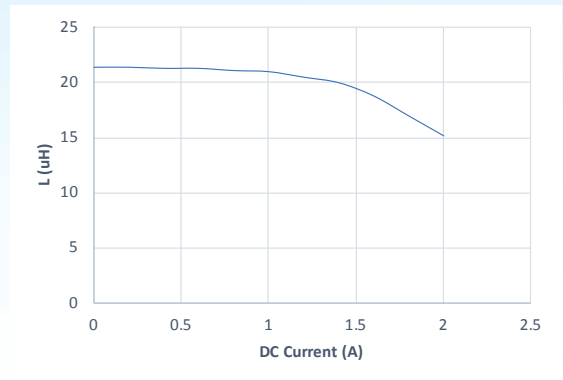
HNT5040MT100



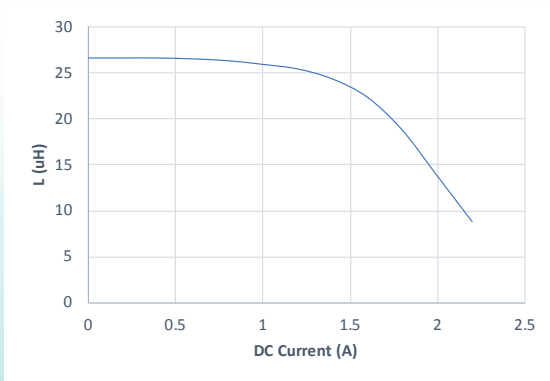
HNT5040MT150



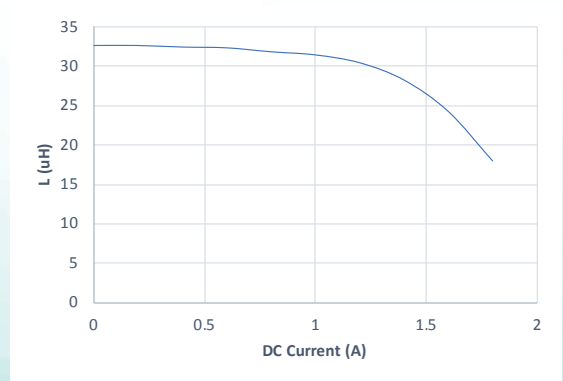
HNT5040MT220



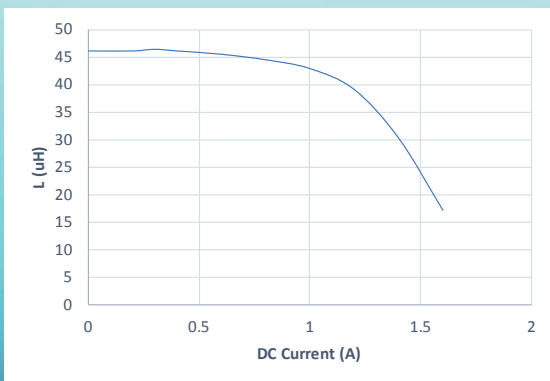
HNT5040MT270



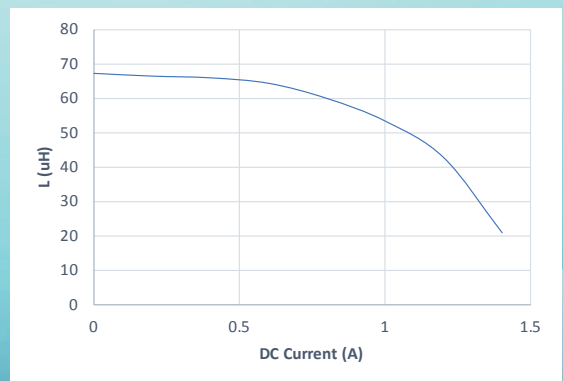
HNT5040MT330



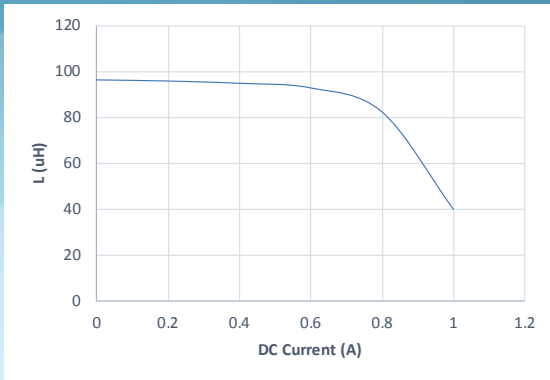
HNT5040MT470



HNT5040MT680



HNT5040MT101



Ordering information

HNT - 5040 - M - T - 1R0

(1) (2) (3) (4) (5)

- (1) Type : SMD Power Inductor
- (2) Size : 5040 is size
- (3) Tolerance : M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : 1R0 for 1.0uH, 100 for 10uH, 101 for 100uH...

Characteristics

- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range : -55°C to 125°C (Including self-temperature rise)

Test equipment

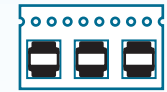
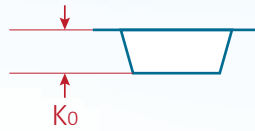
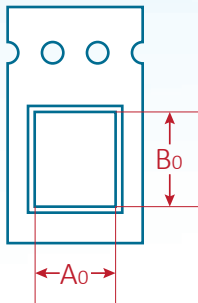
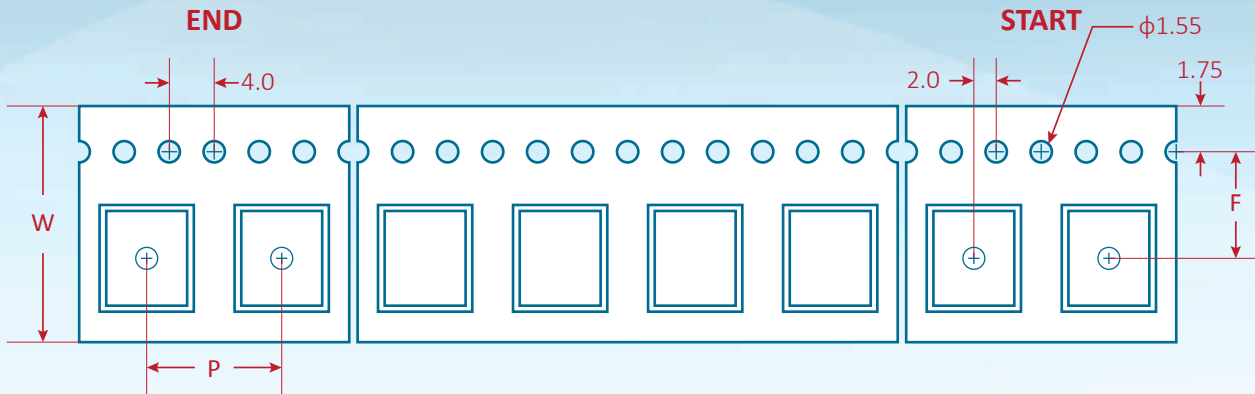
- L : Agilent/ HP4284A+ Agilent/ HP42841A, 100kHz, 1V
- DCR : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/ HP4284A, 100kHz, 1V



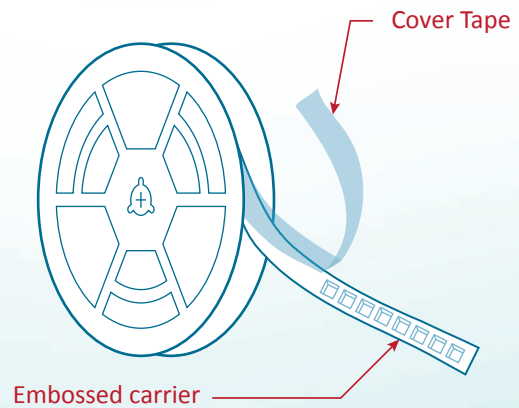
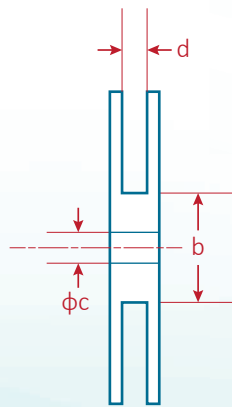
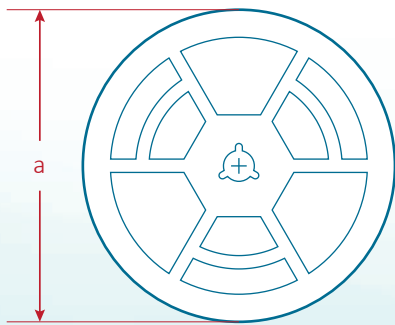
HNT5040

Packing

Dimensions in mm



Bottom View



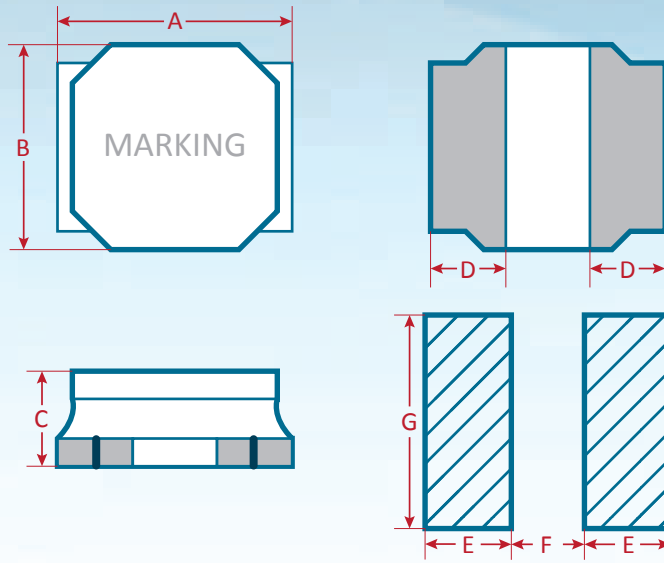
Item	F	W	P	A_0	B_0	K_0	a	b	ϕc	d
HNT5040	5.5	12	8	5.2	5.2	4.2	330	100	13	13.4
Reel										
Q'ty(Pcs)										
1,500										

6 x 6

HNT6020

P.36 - P.39

Shape and Dimensions(mm):



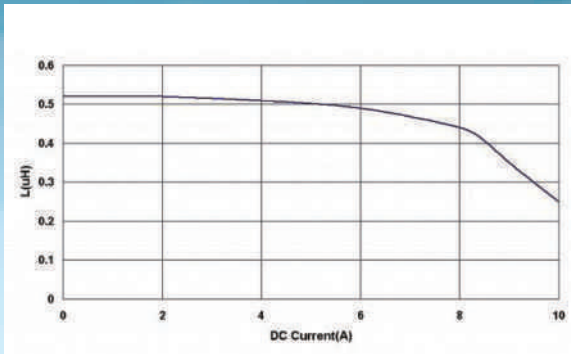
Item	A	B	C	D	E	F	G
HNT6020	6.0±0.2	6.0±0.2	2.0 ^{+0.2} _{-0.3}	1.65 Typ.	1.6 Typ.	2.9 Typ.	5.7 Typ.

HNT6020

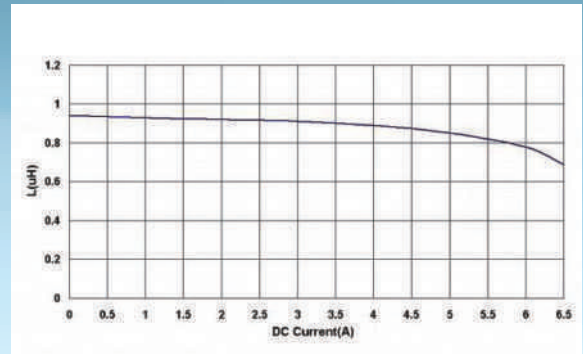


Part No.	Inductance (uH)	DCR(mΩ) ±30%	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT6020NTR50	0.5	13	8.0	7.2	5.3	4.77	30
HNT6020NTR90	0.9	18	6.3	5.67	4.2	3.78	30
HNT6020MT1R0	1.0	19	6.2	5.58	4.1	3.69	20
HNT6020MT1R5	1.5	26	5.0	4.5	3.6	3.24	20
HNT6020MT2R2	2.2	34	4.2	3.78	3.2	2.88	20
HNT6020MT3R3	3.3	40	3.2	2.88	2.7	2.43	20
HNT6020MT4R7	4.7	58	2.5	2.25	2.2	1.98	20
HNT6020MT6R8	6.8	85	2.2	1.98	1.8	1.62	20
HNT6020MT100	10	125	2.0	1.8	1.6	1.44	20
HNT6020MT150	15	190	1.3	1.17	1.3	1.17	20
HNT6020MT220	22	260	1.1	0.99	1.1	0.99	20

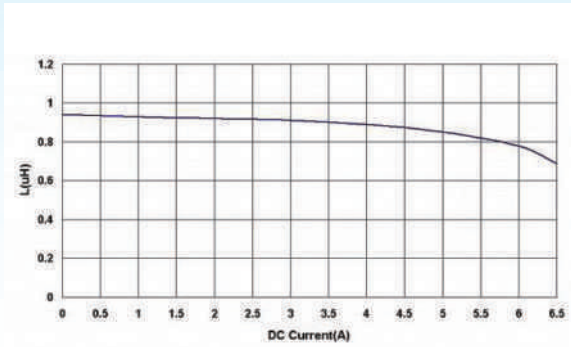
HNT6020NTR50



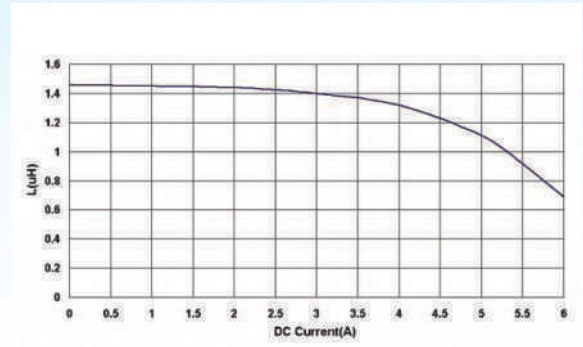
HNT6020NTR90



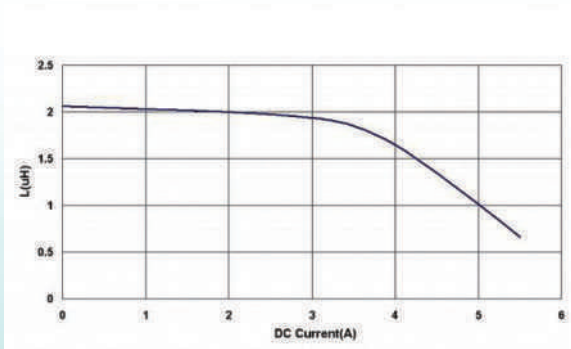
HNT6020MT1R0



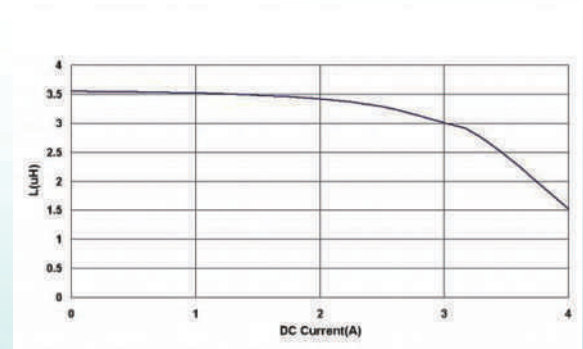
HNT6020MT1R5



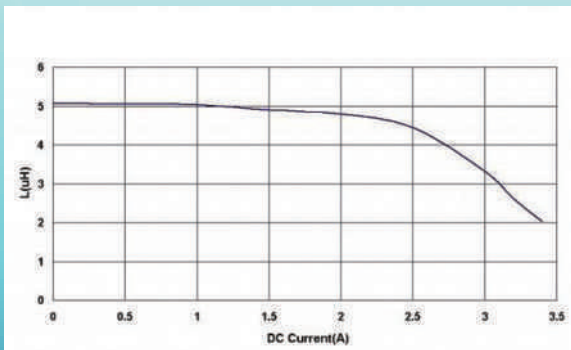
HNT6020MT2R2



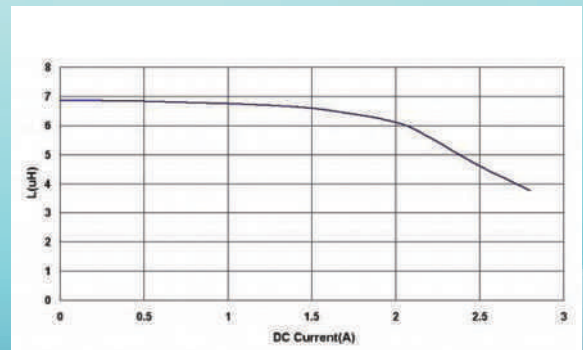
HNT6020MT3R3



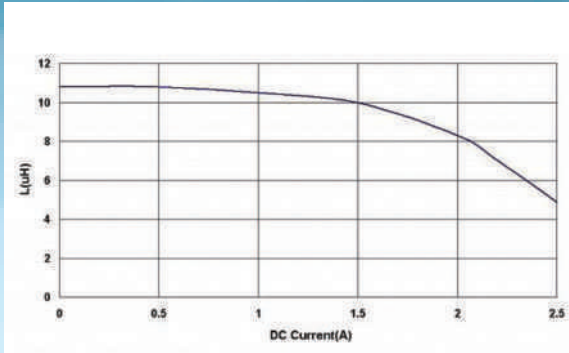
HNT6020MT4R7



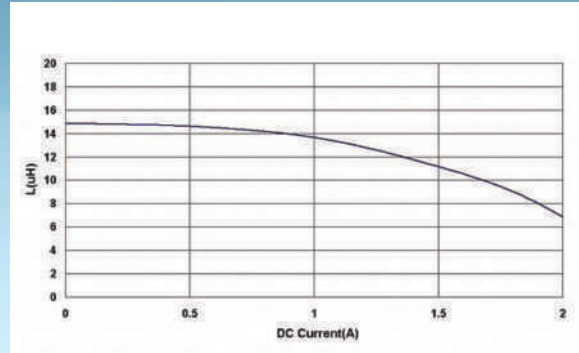
HNT6020MT6R8



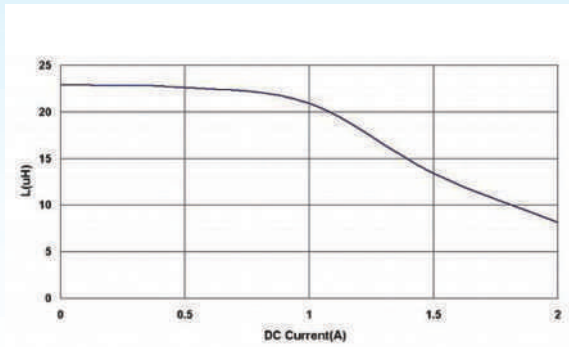
HNT6020MT100



HNT6020MT150



HNT6020MT220



Ordering information

HNT - 6020 - M - T - 1R0

(1) (2) (3) (4) (5)

- (1) Type : Surface Mountable Type
- (2) Size : 6020 is size
- (3) Tolerance : N=30%,M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : R50 for 0.5uH, 1R0 for 1.0uH, 100 for 10uH...

Characteristics

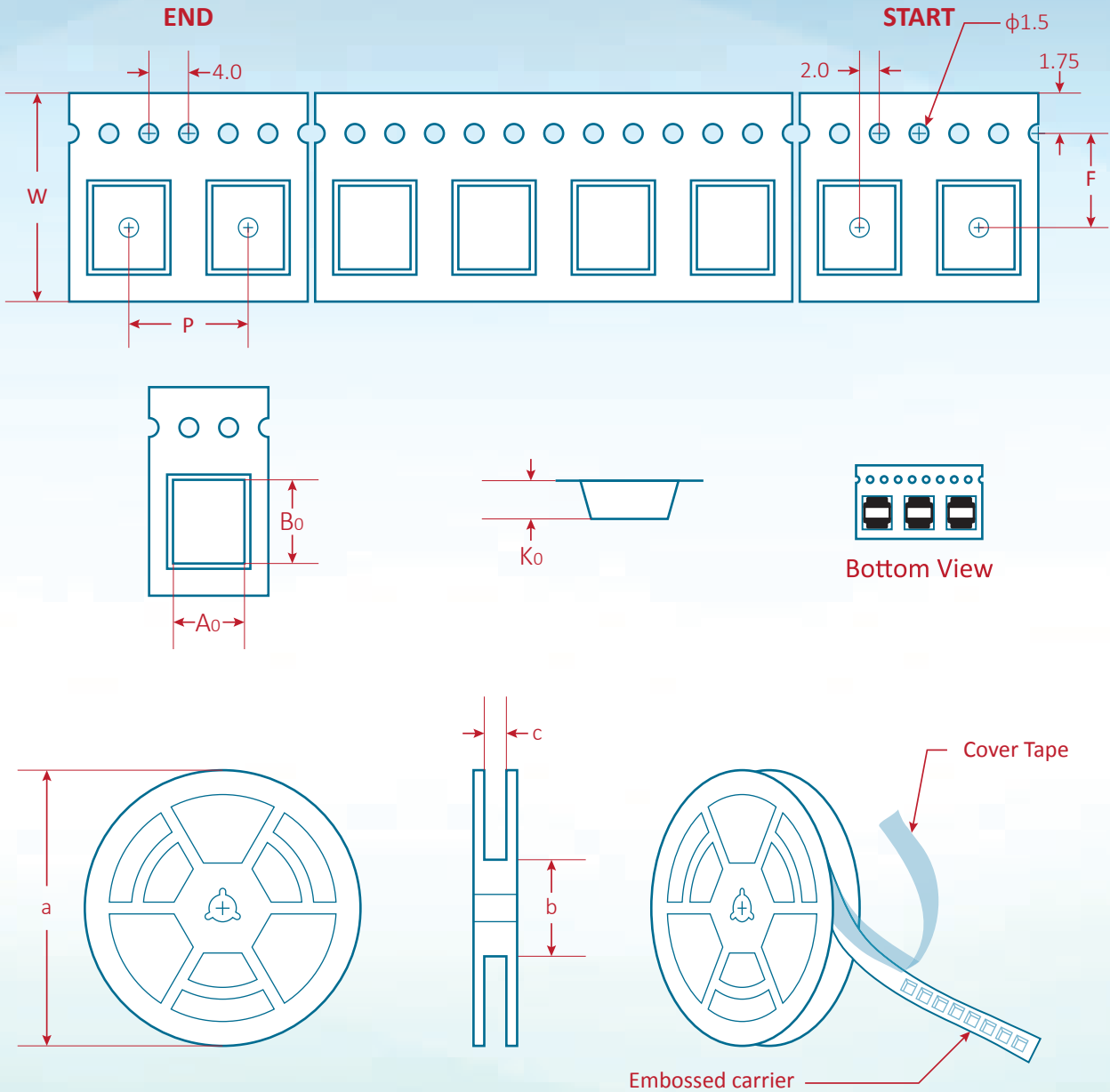
- Isat : Based on Inductance decrease 30%
- Irms : Based on Temperature increase 40°C
- Operating temperature range : -40 to +125°C (Including self-temperature rise)
- Storage Temp : 0°C to +40°C (RH 70% Max)

Test equipment

- Test Frequency : 100KHz/ 1.0V
- L : GKT-3250
- Isat&Irms : CH2816+WR7210
- DCR: GKT-502BC

Packing

Dimensions in mm



Item	F	W	P	A ₀	B ₀	K ₀	a	b	c
HNT6020	7.5	16	12	6.3	6.3	2.3	330	100	16.5
Reel									
Q'ty(Pcs)									
2,000									

6 x 6

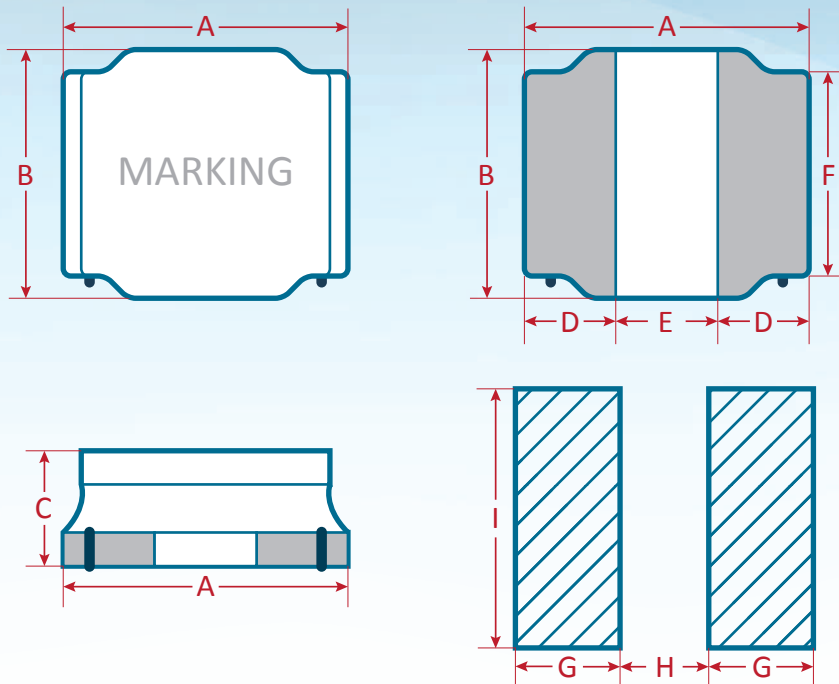
HNT6045

P.44 - P.46

HNT Series

SMD Power Inductor

Shape and Dimensions(mm):



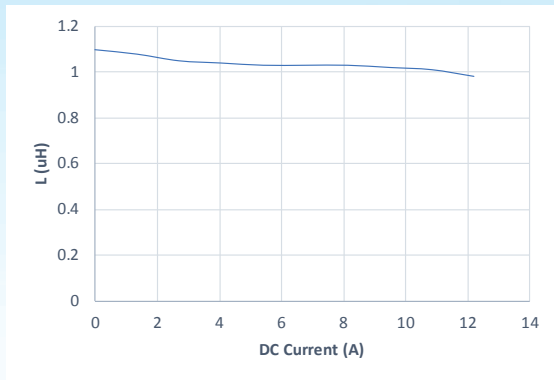
Item	A	B	C	D	E	F	G	H	I
HNT6045	6.0±0.3	6.0±0.3	4.7 Max.	1.55±0.3	2.9±0.3	4.9±0.3	1.7 Typ.	2.8 Typ.	5.7 Typ.

HNT6045

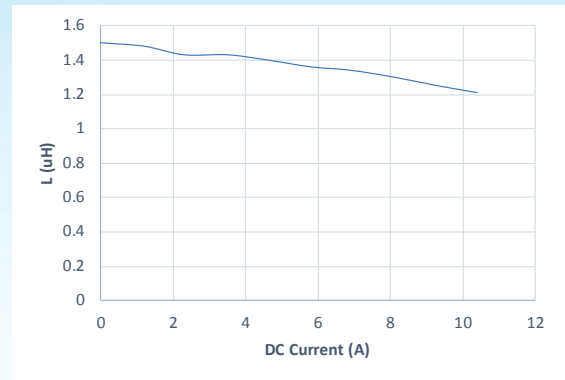
Part No.	Inductance (uH)	DCR(mΩ) ±30%	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT6045MT1R0	1.0	12	12.2	10.98	6.5	5.85	20
HNT6045MT1R5	1.5	15	10.4	9.36	5.9	5.31	20
HNT6045MT1R8	1.8	17	9.6	8.64	5.6	5.04	20
HNT6045MT2R2	2.2	18.4	8.8	7.92	5.1	4.59	20
HNT6045MT2R3	2.3	19	8.8	7.92	5.0	4.5	20
HNT6045MT3R0	3.0	22	7.8	7.02	4.4	3.96	20
HNT6045MT3R3	3.3	24	7.5	6.75	4.3	3.87	20
HNT6045MT3R6	3.6	24	7.5	6.75	4.3	3.87	20
HNT6045MT3R9	3.9	26	7.0	6.3	4.0	3.6	20
HNT6045MT4R5	4.5	31	6.7	6.03	3.9	3.51	20
HNT6045MT4R7	4.7	31	6.7	6.03	3.9	3.51	20
HNT6045MT5R1	5.1	33	6.0	5.4	3.5	3.15	20
HNT6045MT5R6	5.6	40	5.5	4.95	3.3	2.97	20
HNT6045MT6R3	6.3	40	5.5	4.95	3.3	2.97	20
HNT6045MT6R8	6.8	43	5.3	4.77	3.2	2.88	20
HNT6045MT8R2	8.2	52	4.9	4.41	3.0	2.66	20
HNT6045MT100	10	57	4.5	4.05	2.7	2.43	20
HNT6045MT150	15	80	3.4	3.06	2.2	1.98	20
HNT6045MT180	18	100	3.1	2.79	1.8	1.62	20
HNT6045MT220	22	125	3.0	2.7	1.9	1.71	20

Part No.	Inductance (μH)	DCR($\text{m}\Omega$) $\pm 30\%$	Isat(A)		Irms(A)		Tolerance ($\pm\%$)
			Typ.	Max.	Typ.	Max.	
HNT6045MT270	27	160	2.5	2.25	1.3	1.17	20
HNT6045MT330	33	165	2.3	2.07	1.4	1.26	20
HNT6045MT470	47	245	1.9	1.71	1.2	1.08	20
HNT6045MT560	56	310	1.7	1.5	1.1	0.99	20
HNT6045MT680	68	330	1.6	1.44	1.0	0.9	20
HNT6045MT101	100	500	1.3	1.17	0.8	0.72	20

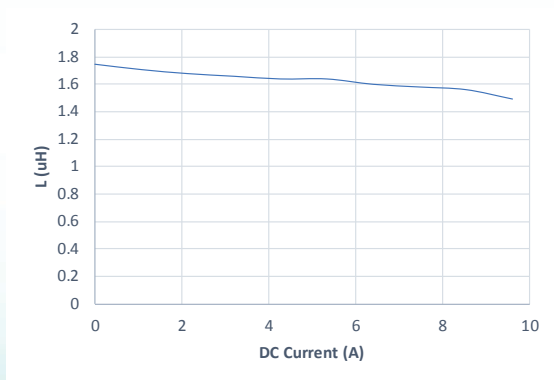
HNT6045MT1R0



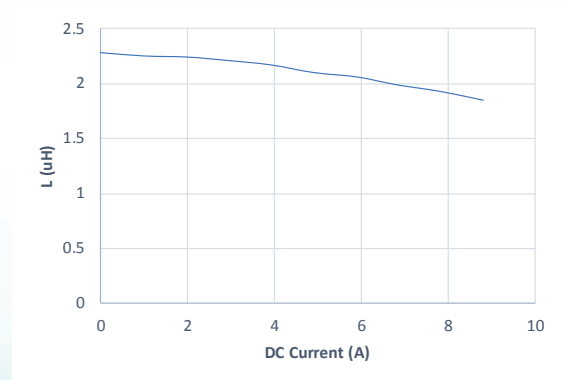
HNT6045MT1R5



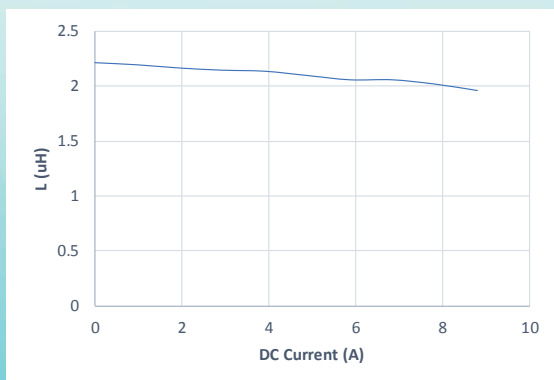
HNT6045MT1R8



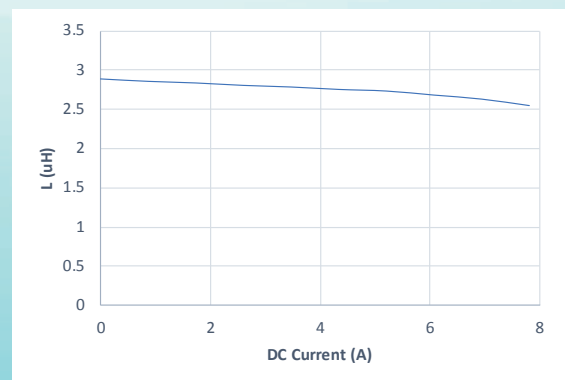
HNT6045MT2R2



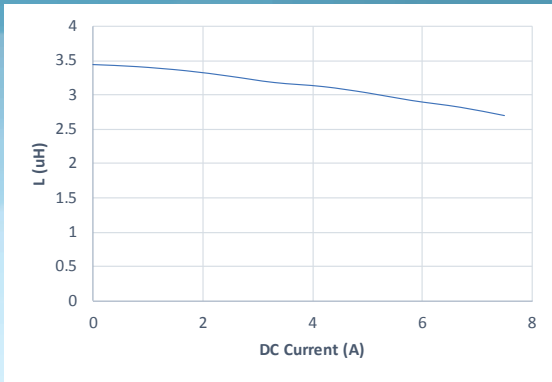
HNT6045MT2R3



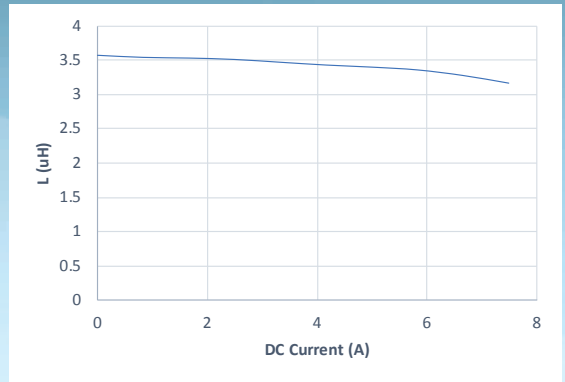
HNT6045MT3R0



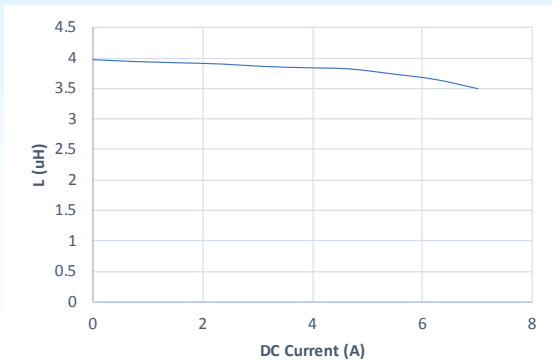
HNT6045MT3R3



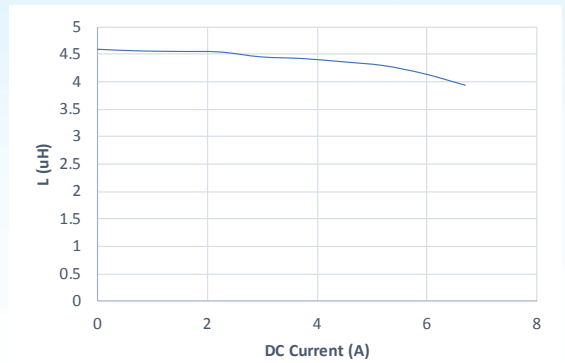
HNT6045MT3R6



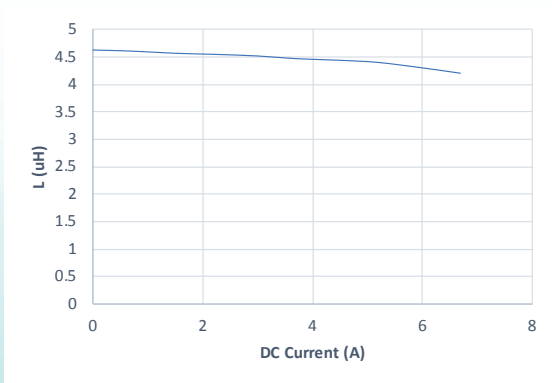
HNT6045MT3R9



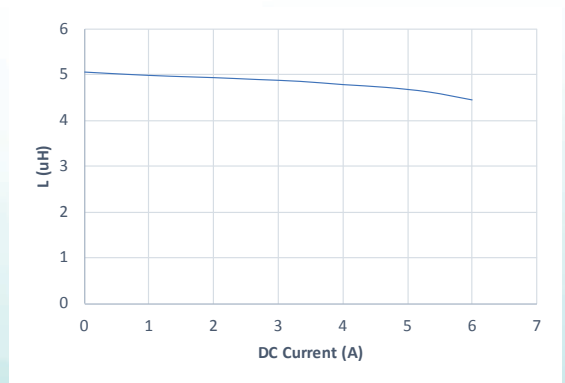
HNT6045MT4R5



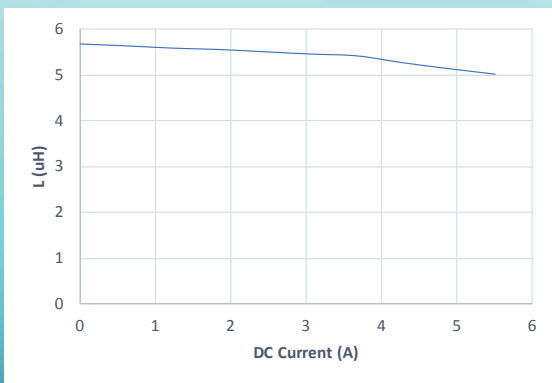
HNT6045MT4R7



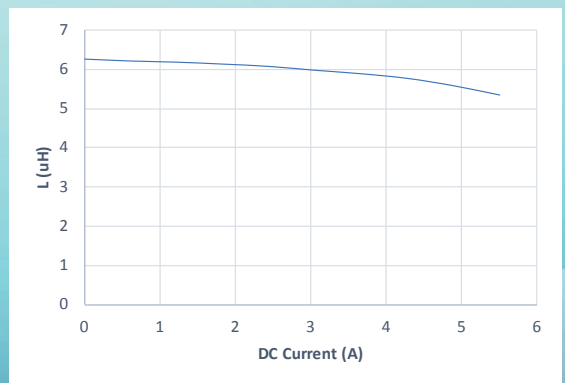
HNT6045MT5R1



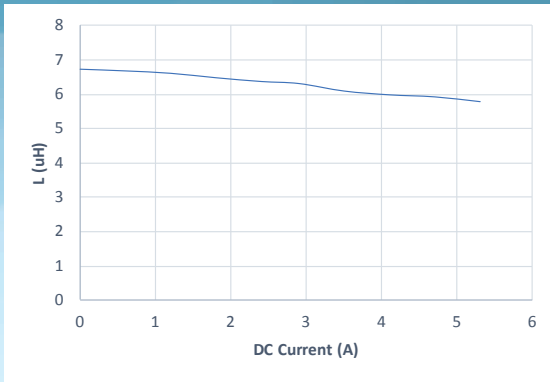
HNT6045MT5R6



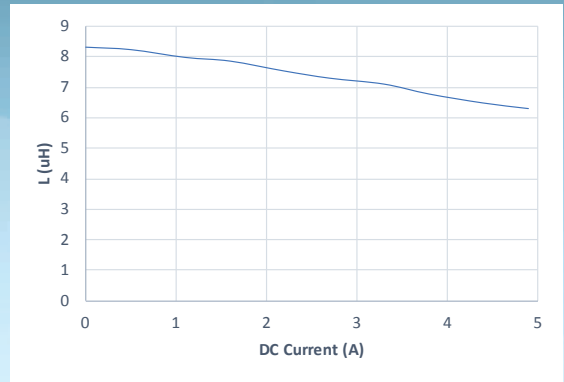
HNT6045MT6R3



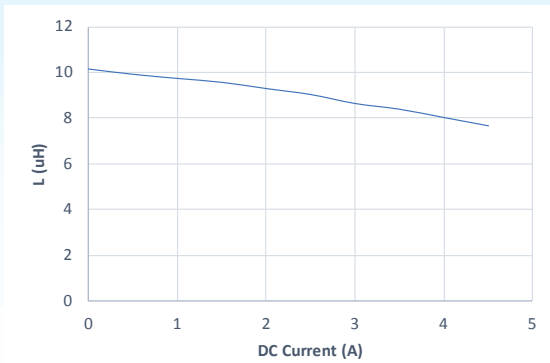
HNT6045MT6R8



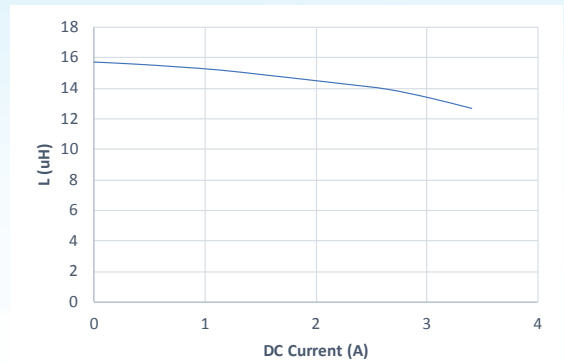
HNT6045MT8R2



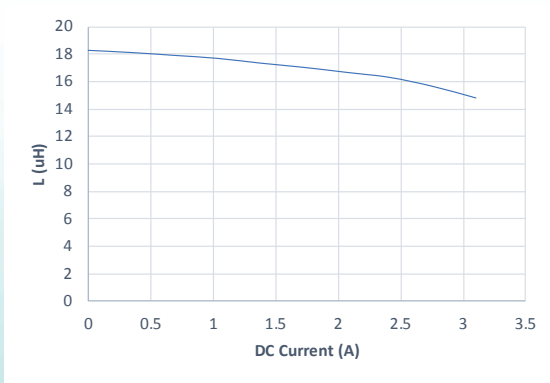
HNT6045MT100



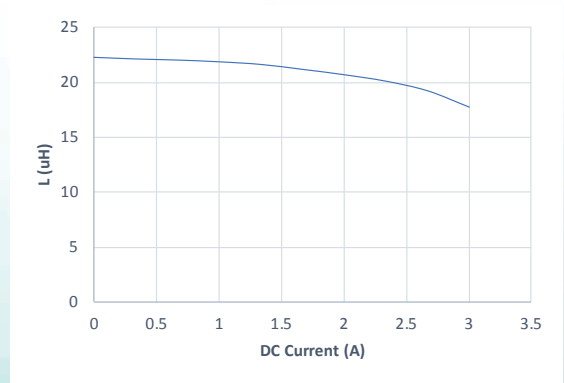
HNT6045MT150



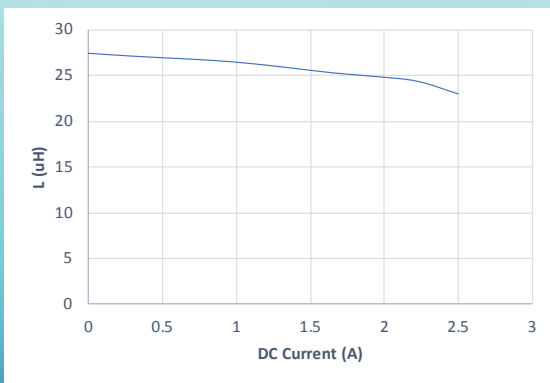
HNT6045MT180



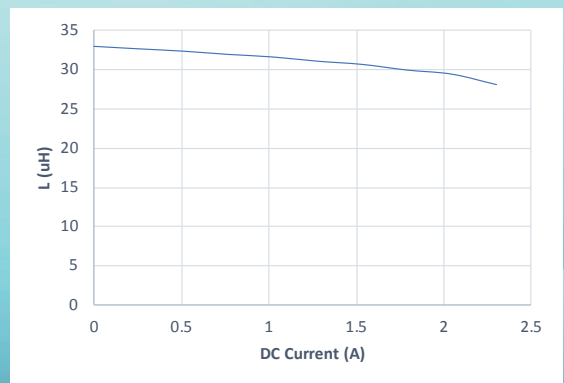
HNT6045MT220



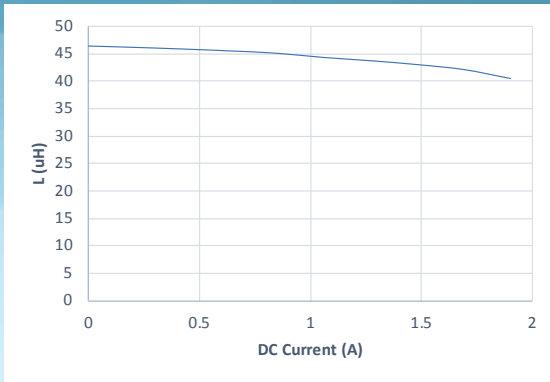
HNT6045MT270



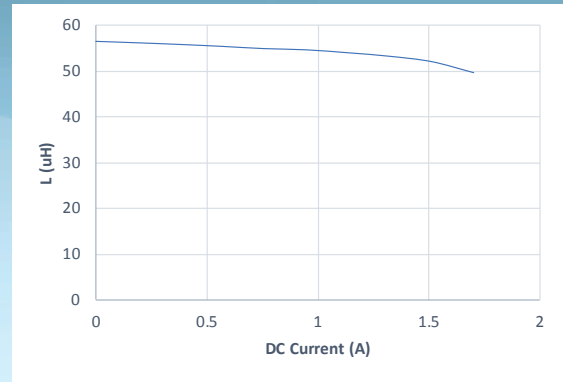
HNT6045MT330



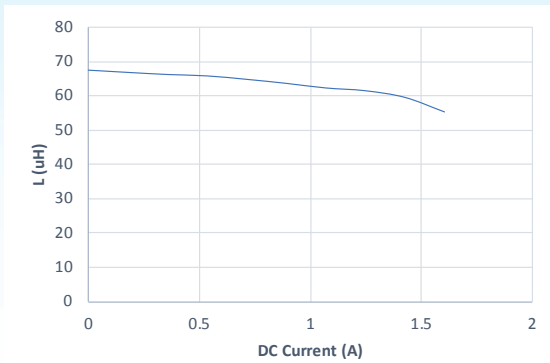
HNT6045MT470



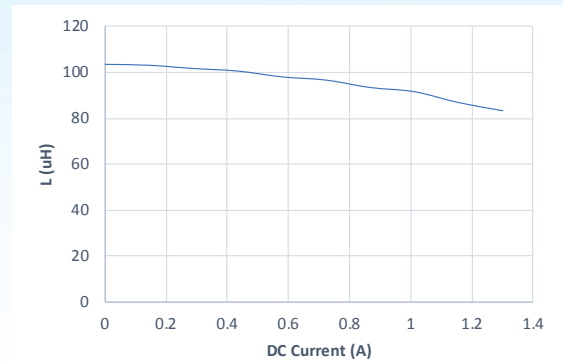
HNT6045MT560



HNT6045MT680



HNT6045MT101



Ordering information

HNT - 6045 - M - T - 1R0

(1) (2) (3) (4) (5)

- (1) Type : SMD Power Inductor
- (2) Size : 6045 is size
- (3) Tolerance : M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : 1R0 for 1.0uH, 100 for 10uH, 101 for 100uH...

Characteristics

- Isat: Based on Inductance decrease 30%
- Irms: Based on Temperature increase 40°C
- Operating temperature range : -25°C to +125°C
- Storage Temp : -10°C to +40°C

Test equipment

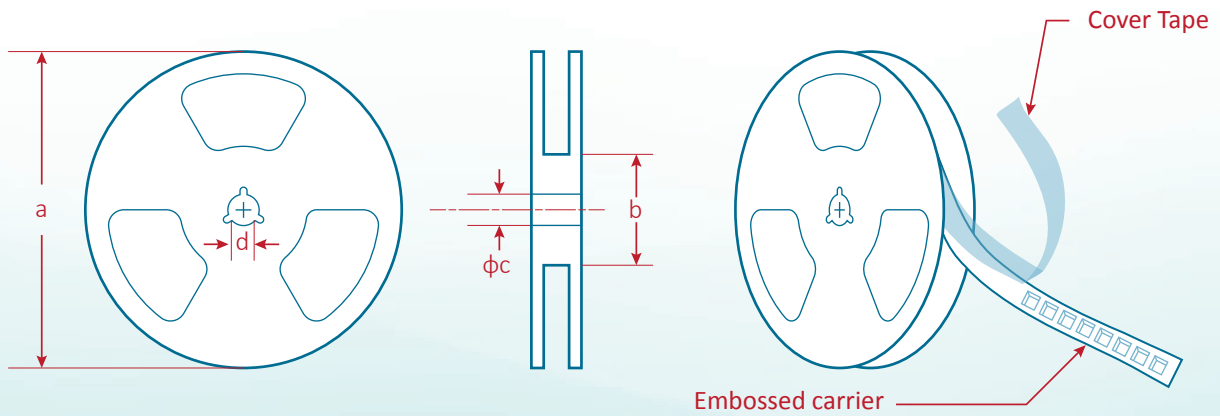
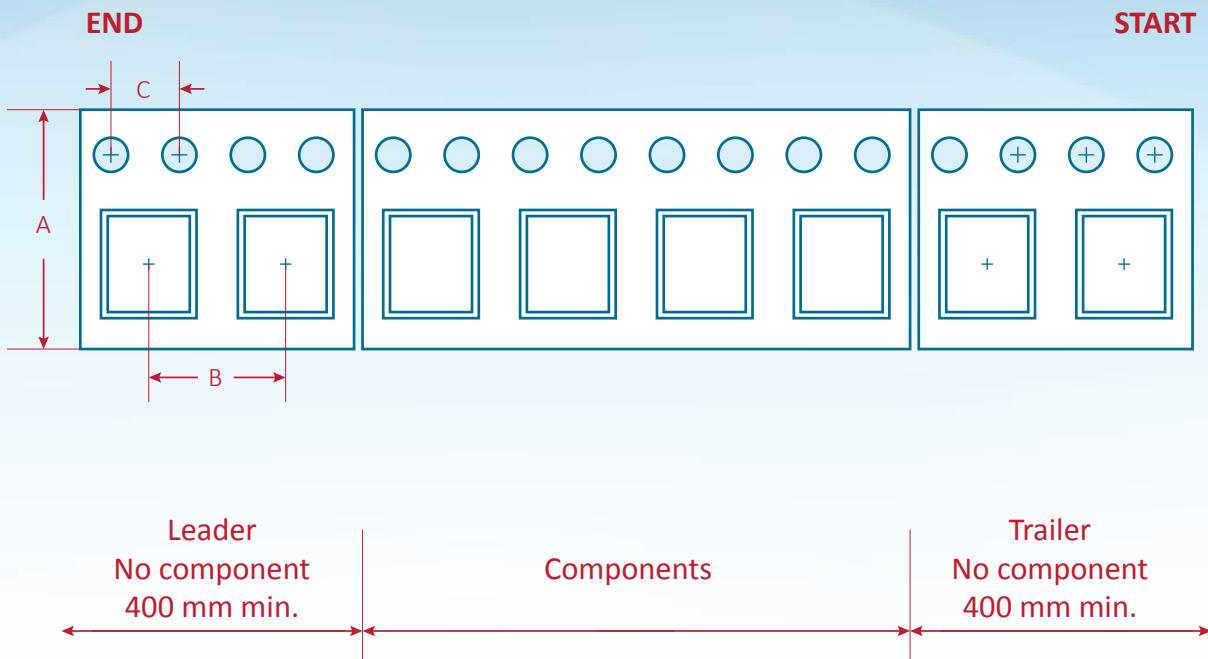
- Test Frequency : 100KHz, 1V
- L : ZM2355 LCR meter or equivalent
- DCR : Hioki 3540 or equivalent



HNT6045

Packing

Dimensions in mm



Item	A	B	C	a	b	ϕc	d
HNT6045	16.0	12.0	4.0	330	20.5±0.5	13.0±0.5	2.0±0.5
Reel							
Q'ty(Pcs)							
1,000							

8 x 8

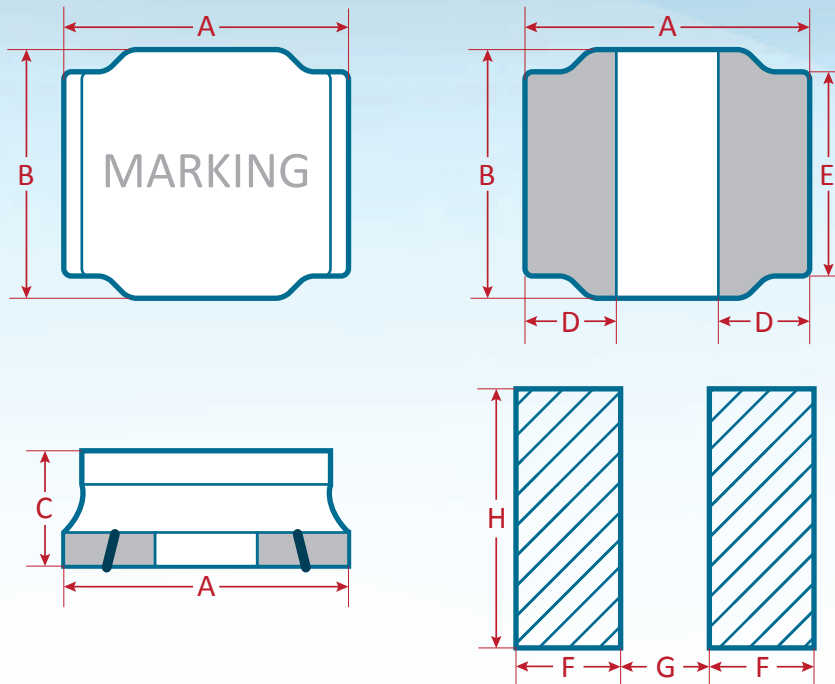
HNT8040

P.48 - P.54

HNT Series

SMD Power Inductor

Shape and Dimensions(mm):



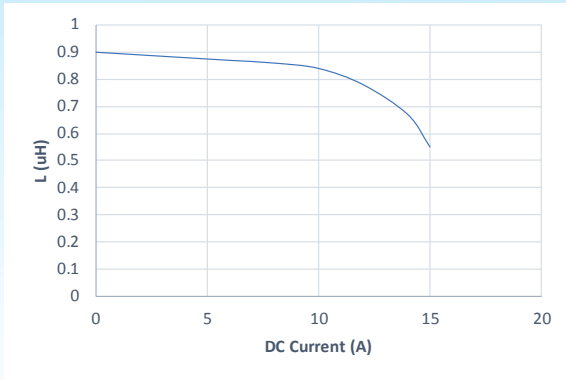
Item	A	B	C	D	E	F	G	H
HNT8040	8.0±0.2	8.0±0.2	4.0 ^{+0.2} _{-0.3}	2.3±0.3	6.3 Typ.	2.5 Typ.	3.4 Typ.	7.5 Typ.

HNT8040

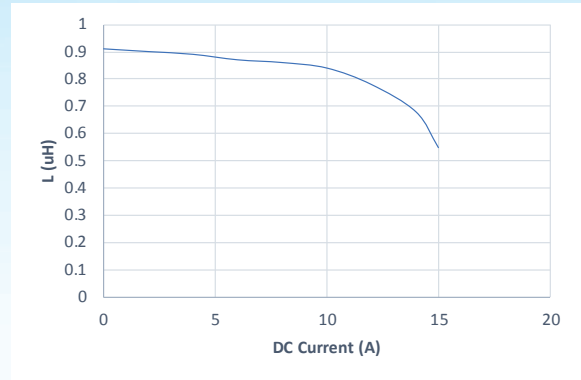
Part No.	Inductance (uH)	DCR(mΩ) ±30%	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT8040NTR90	0.9	7.0	13.8	12.42	8.05	7.24	30
HNT8040NT1R0	1.0	7.5	13	11.7	7.95	7.15	30
HNT8040NT1R4	1.4	9.0	10.8	9.72	7.8	7.02	30
HNT8040NT1R5	1.5	9.5	10	9.0	7.7	6.93	30
HNT8040MT2R0	2.0	11	9.6	8.64	7.4	6.66	20
HNT8040MT2R2	2.2	11.5	9.2	8.28	7.2	6.48	20
HNT8040MT2R5	2.5	13	8.2	7.38	6.3	5.67	20
HNT8040MT3R3	3.3	15	7.5	6.75	6.0	5.4	20
HNT8040MT3R9	3.9	18	6.1	5.4	5.5	4.9	20
HNT8040MT4R7	4.7	18	6.0	5.4	5.5	4.95	20
HNT8040MT5R6	5.6	23	5.7	5.13	5.2	4.68	20
HNT8040MT6R8	6.8	25	5.4	4.86	5.1	4.59	20
HNT8040MT100	10	38	4.3	3.87	3.8	3.42	20
HNT8040MT120	12	45	3.8	3.42	3.5	3.15	20
HNT8040MT150	15	50	3.6	3.24	3.2	2.88	20
HNT8040MT180	18	68	3.1	2.79	2.7	2.43	20
HNT8040MT220	22	80	2.8	2.52	2.6	2.34	20
HNT8040MT330	33	110	2.3	2.07	2.0	1.8	20
HNT8040MT470	47	160	1.9	1.71	1.75	1.57	20
HNT8040MT680	68	240	1.7	1.53	1.45	1.3	20
HNT8040MT101	100	340	1.4	1.26	1.1	0.99	20

Part No.	Inductance (uH)	DCR(mΩ) ±30%	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT8040MT121	120	425	1.1	0.99	1.0	0.9	20
HNT8040MT151	150	480	1.0	0.9	0.9	0.81	20
HNT8040MT181	180	650	0.98	0.88	0.7	0.63	20
HNT8040MT221	220	670	0.94	0.84	0.6	0.54	20
HNT8040MT271	270	900	0.83	0.74	0.55	0.49	20
HNT8040MT821	820	2800	0.4	0.36	0.38	0.34	20

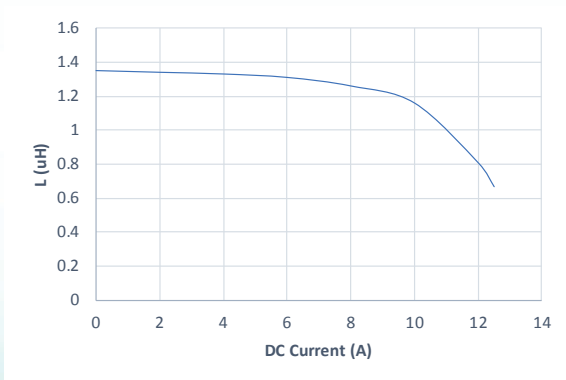
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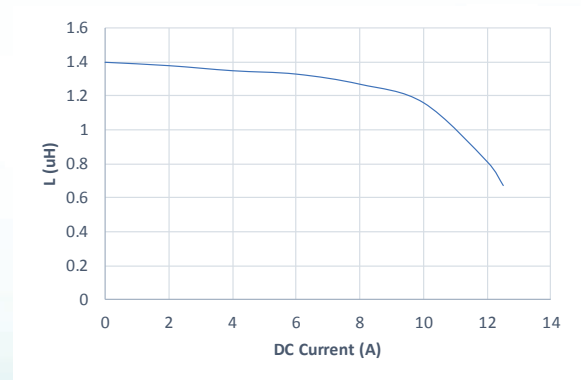
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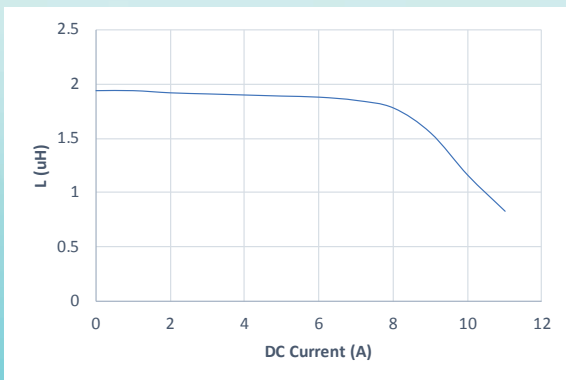
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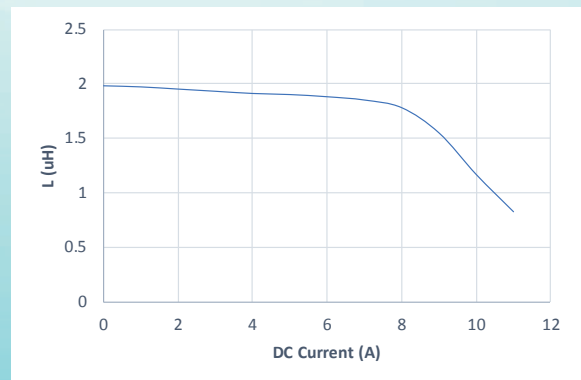
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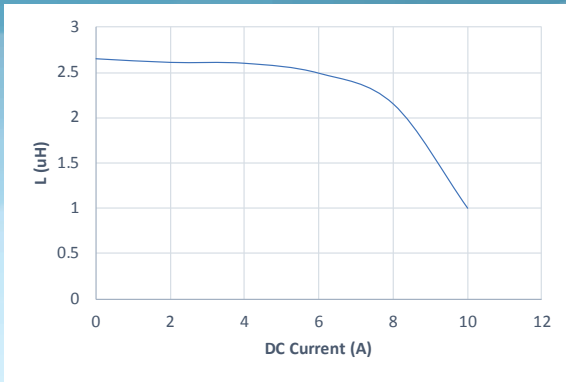
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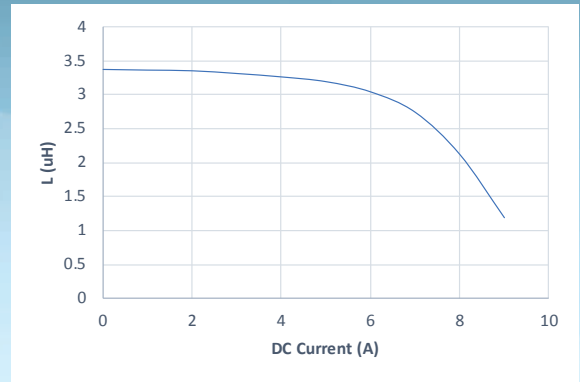
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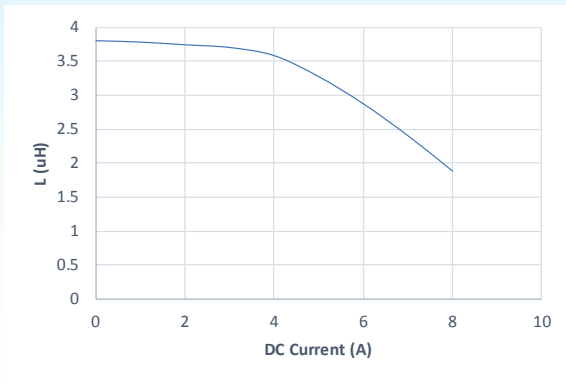
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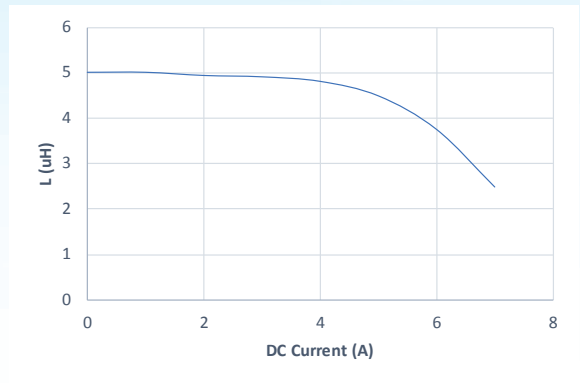
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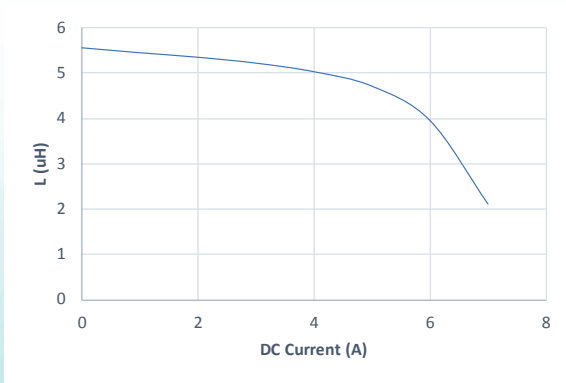
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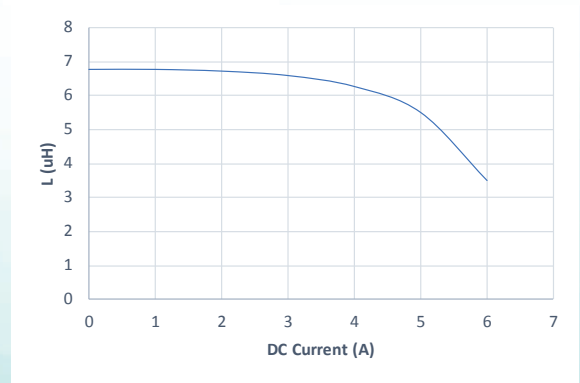
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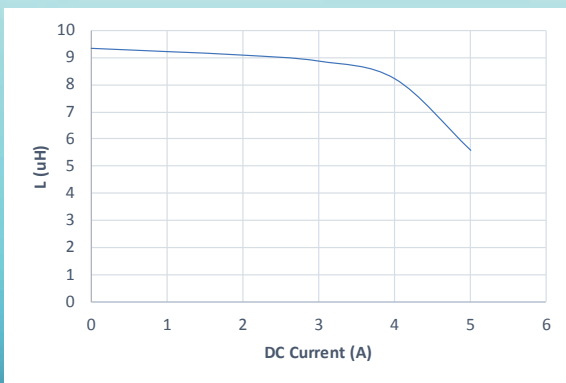
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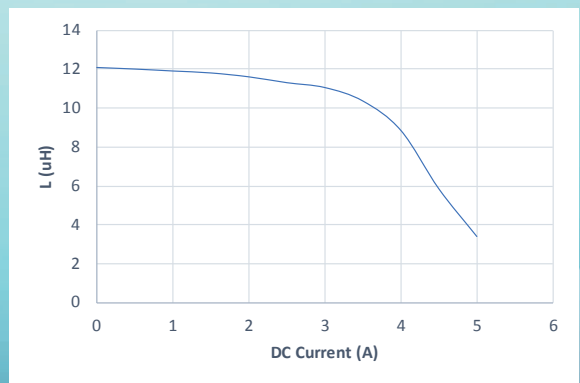
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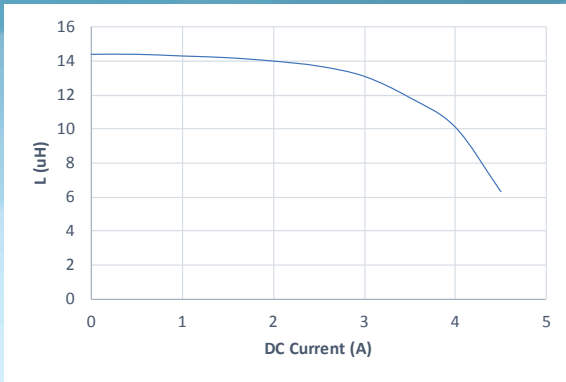
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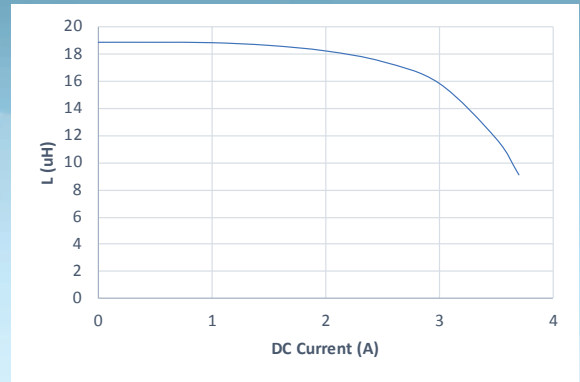
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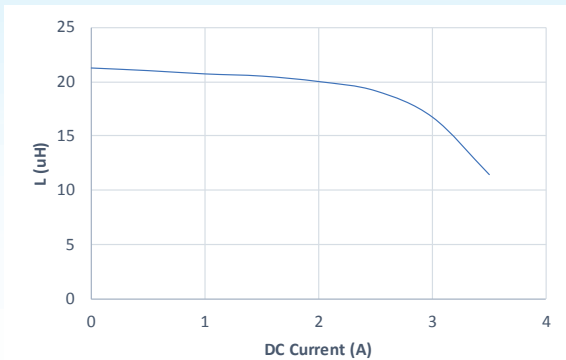
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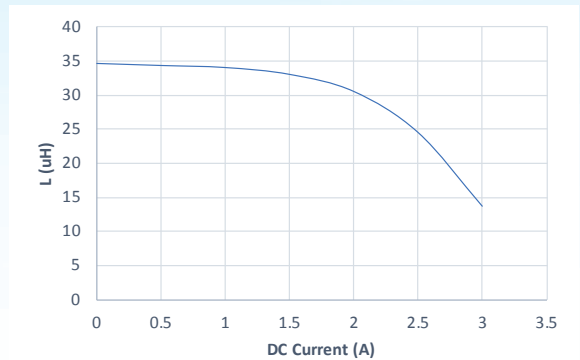
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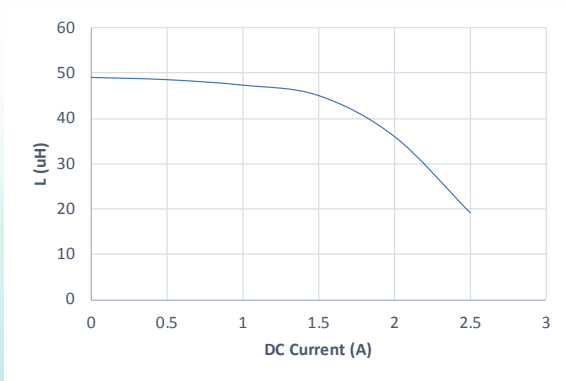
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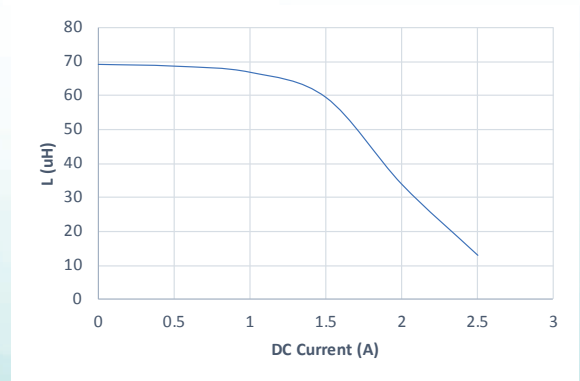
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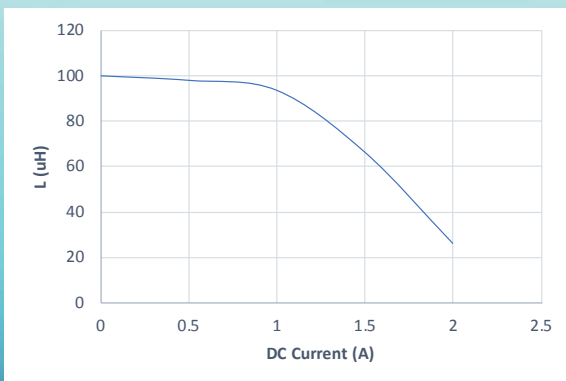
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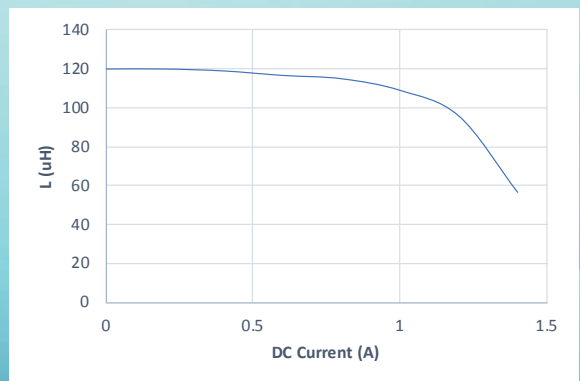
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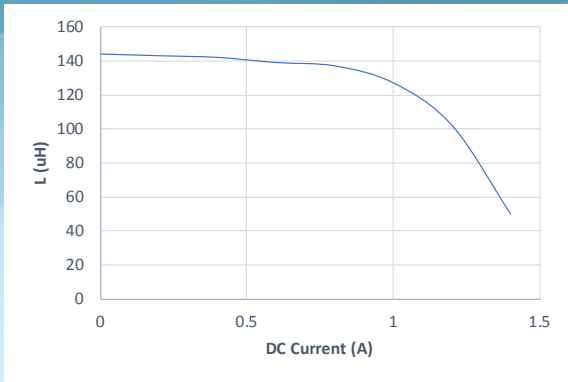
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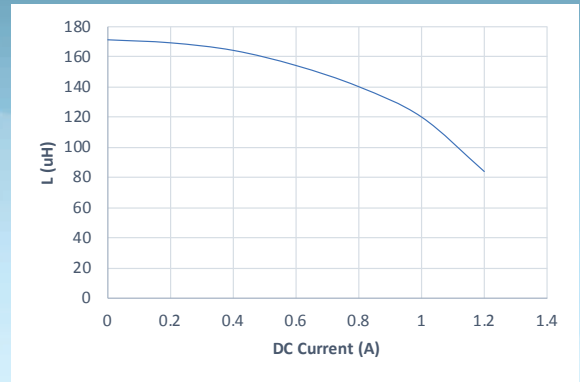
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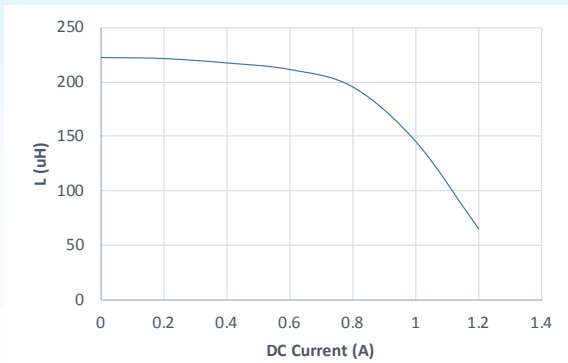
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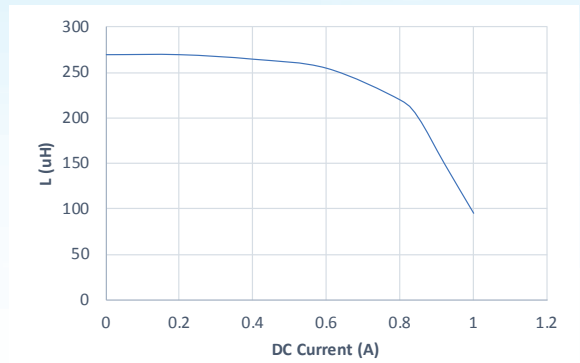
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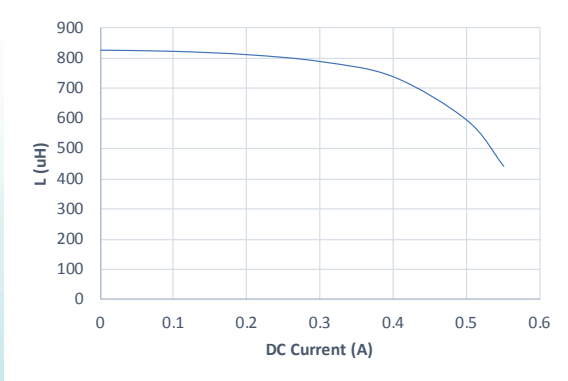
HNT8040MT221



HNT8040MT271



HNT8040MT821



Ordering information

HNT - 8040 - M - T - 1R0

(1) (2) (3) (4) (5)

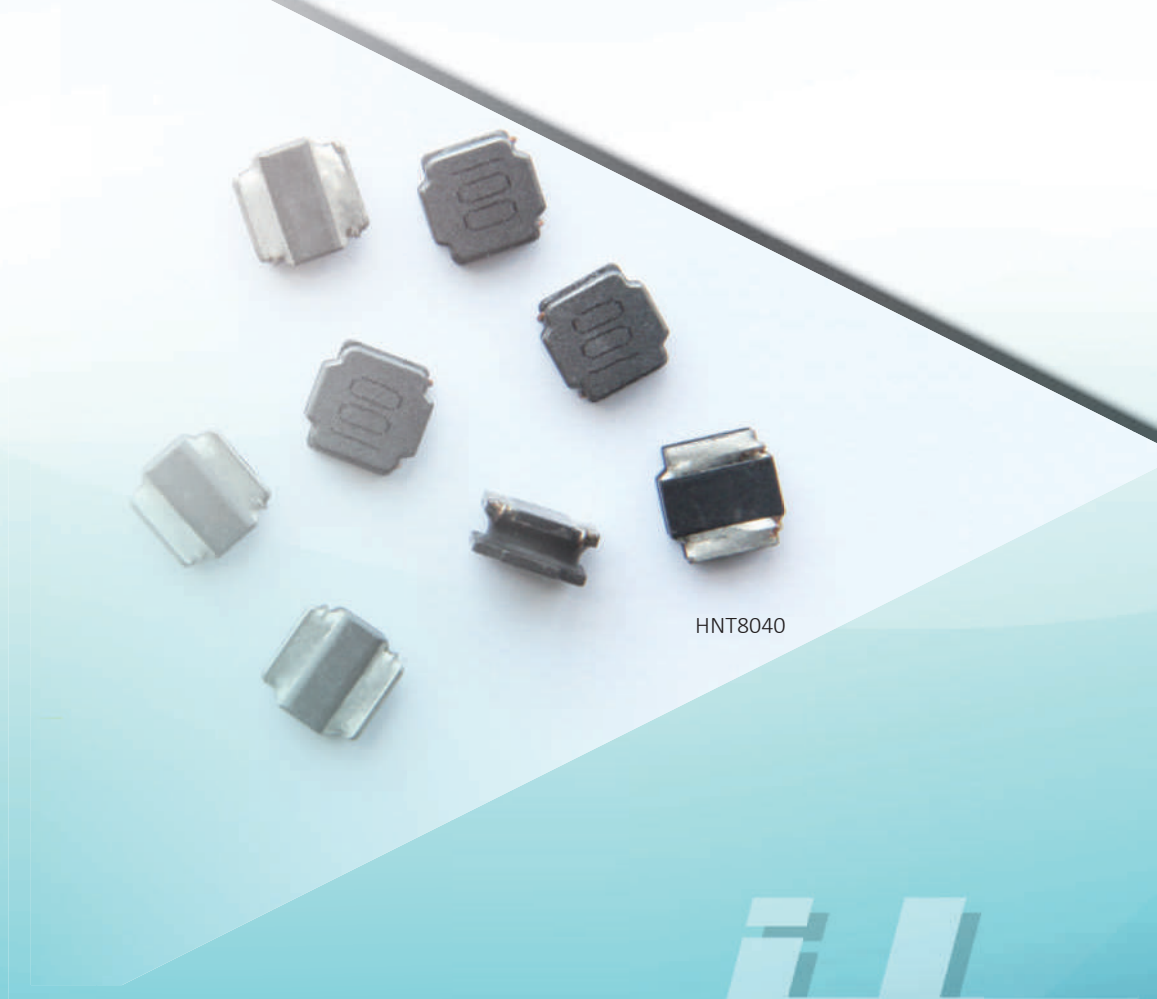
- (1) Type : SMD Power Inductor
- (2) Size : 8040 is size
- (3) Tolerance : M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : R90 for 0.9 uH, 1R0 for 1.0uH, 100 for 10uH, 101 for 100uH...

Characteristics

- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range : -55°C to 125°C (Including self-temperature rise)

Test equipment

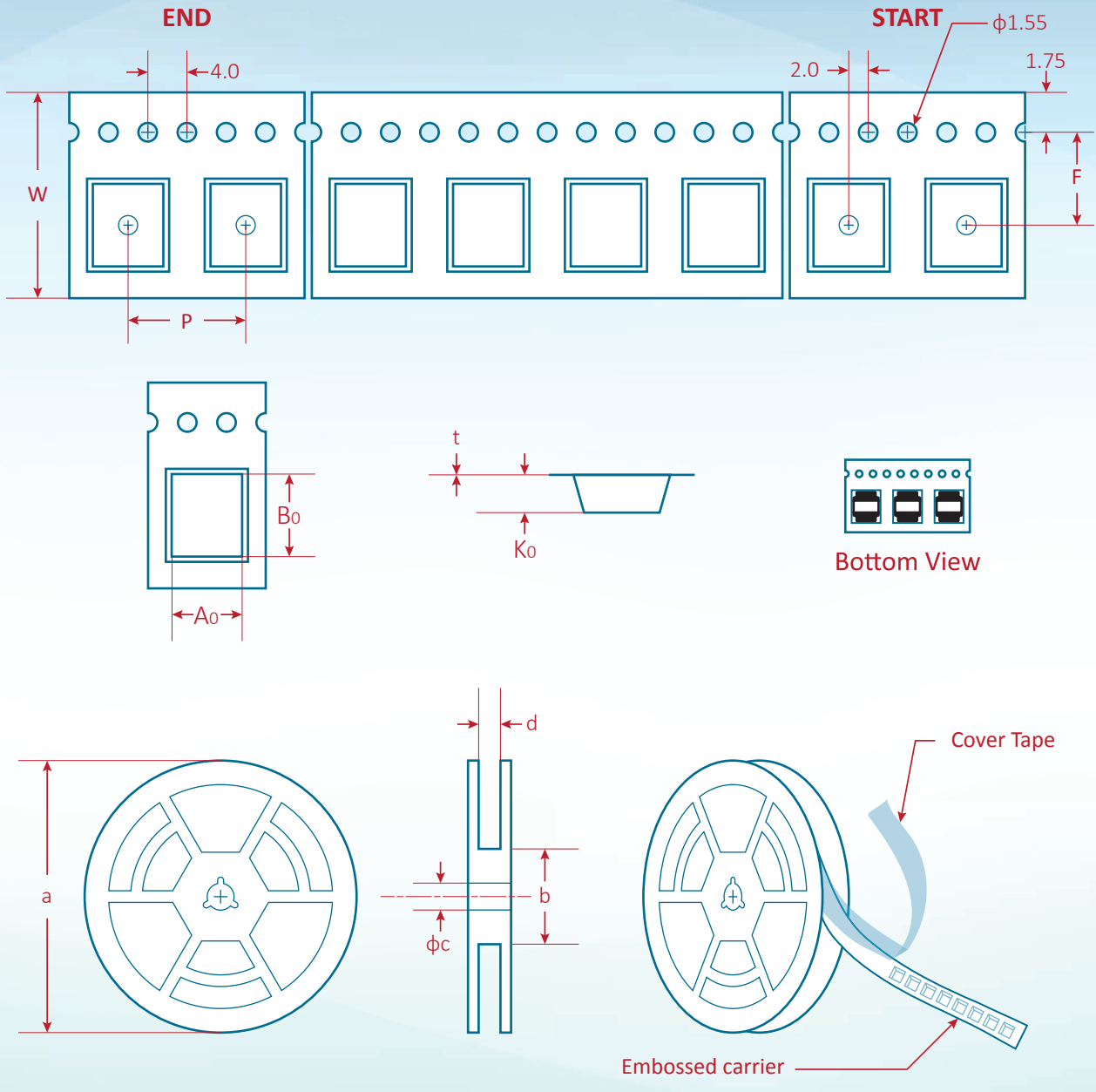
- L : Agilent/ HP4284A+ Agilent/ HP42841A, 100kHz, 1V
- DCR : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/ HP4284A, 100kHz, 1V



HNT8040

Packing

Dimensions in mm



Item	F	W	P	A ₀	B ₀	K ₀	a	b	ϕc	d
HNT8040	7.5	16	12	8.25	8.25	4.15	330	100	13	16
Reel										
Q'ty(Pcs)										
1,000										