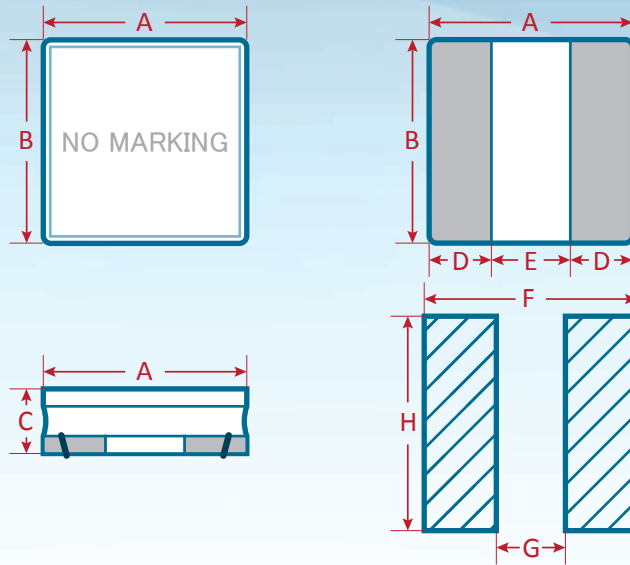


HNT Series

SMD Power Inductor

Shape and Dimensions(mm):



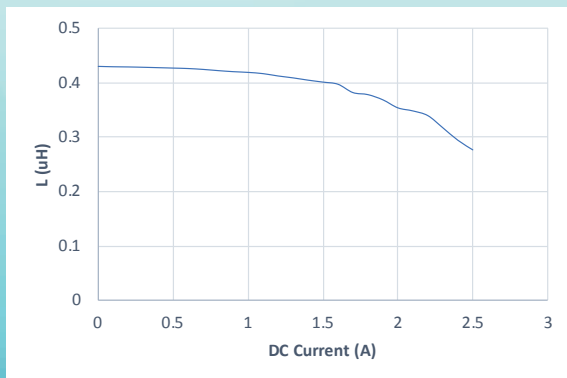
Item	A	B	C	D	E	F	G	H
HNT2508	2.5±0.2	2.0±0.2	0.8 Max.	0.85 Ref.	0.8 Ref.	2.7 Typ.	0.8 Typ.	2.2 Typ.
HNT2510	2.5±0.2	2.0±0.2	1.02Max.	0.85 Ref.	0.8 Ref.	2.7 Typ.	0.8 Typ.	2.2 Typ.
HNT2512	2.5±0.2	2.0±0.35	1.2 Max.	0.85 Ref.	0.8 Ref.	2.7 Typ.	0.8 Typ.	2.2 Typ.

HNT2508

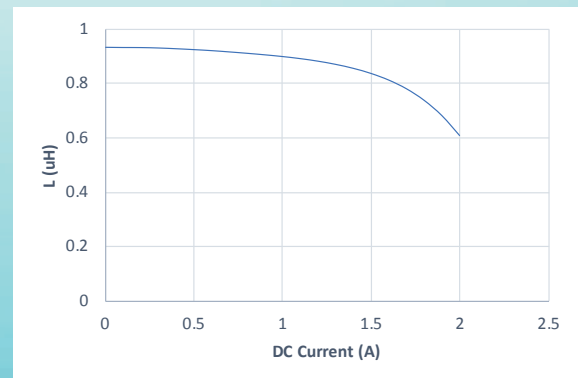
Marking : HNT2510MT2R2 : C
HNT2510MT4R7 : E

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

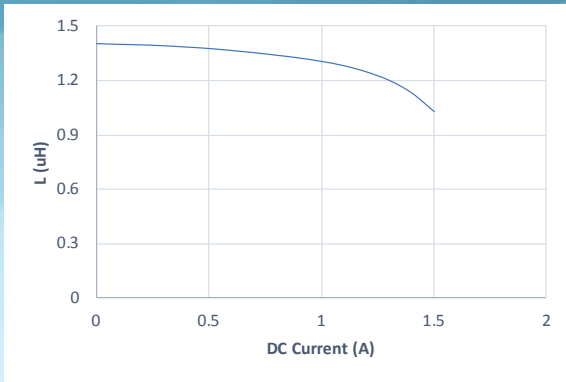
HNT2508MTR47



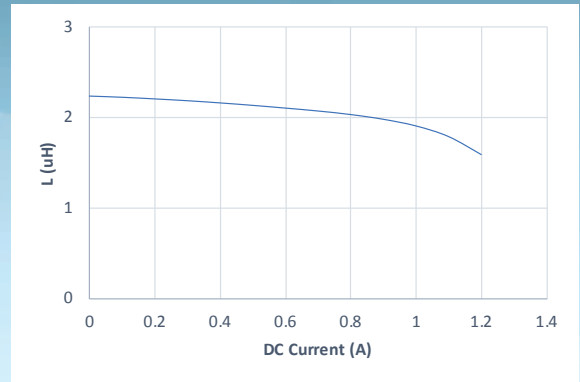
HNT2508MT1R0



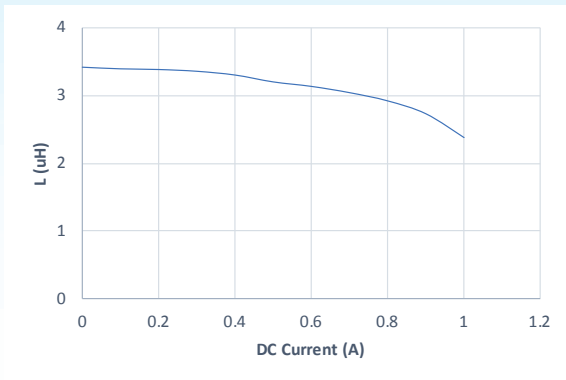
HNT2508MT1R5



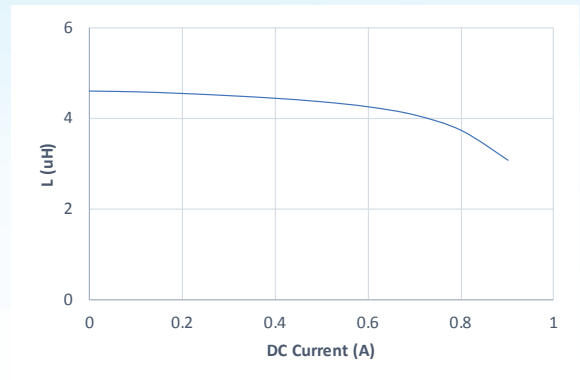
HNT2508MT2R2



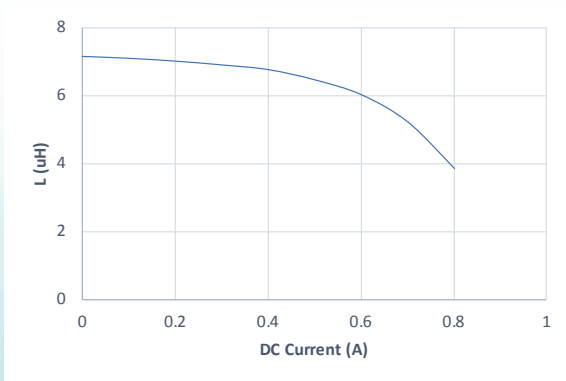
HNT2508MT3R3



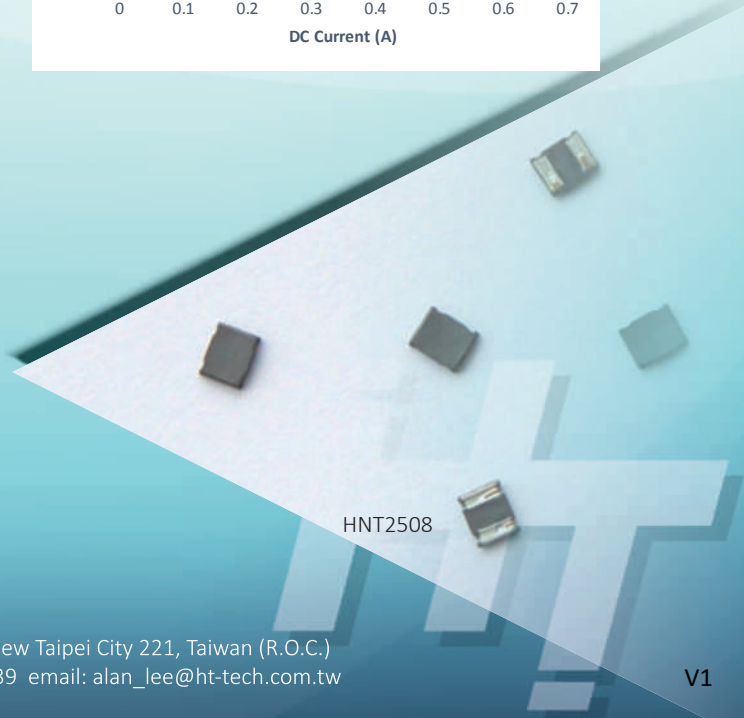
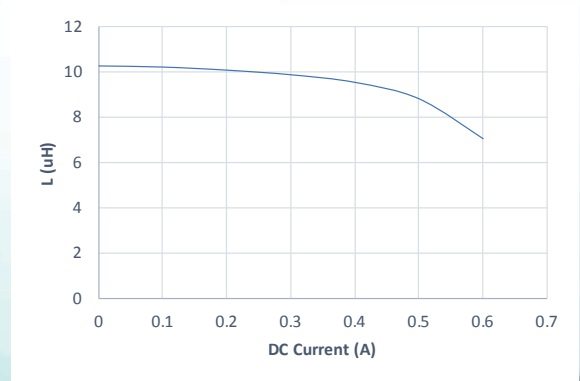
HNT2508MT4R7



HNT2508MT6R8



HNT2508MT100



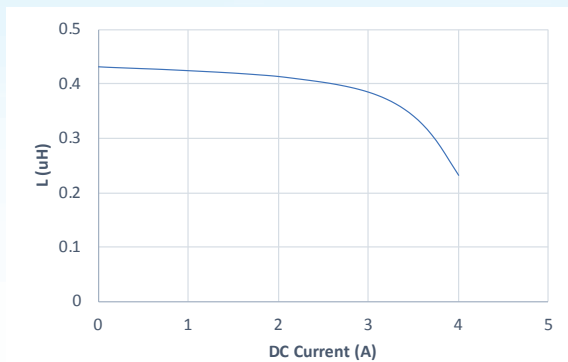
HNT2508

HNT2510

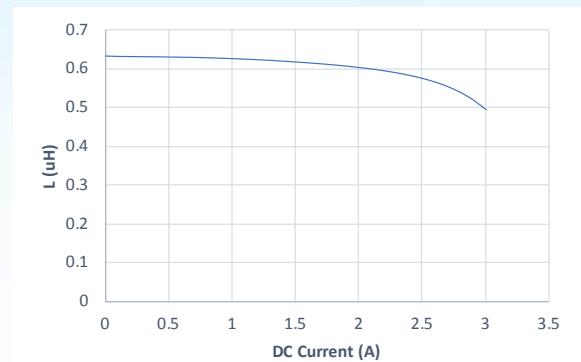


Part No.	Inductance (uH)	DCR(mΩ) ±30%	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT2510MTR47	0.47	45	4.0	3.2	3.1	2.9	20
HNT2510MTR68	0.68	70	3.4	2.7	2.6	2.4	20
HNT2510MT1R0	1.0	90	2.7	2.2	2.2	2.0	20
HNT2510MT1R5	1.5	125	2.3	1.8	2.0	1.8	20
HNT2510MT2R2	2.2	178	1.62	1.45	1.68	1.51	20
HNT2510MT3R3	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

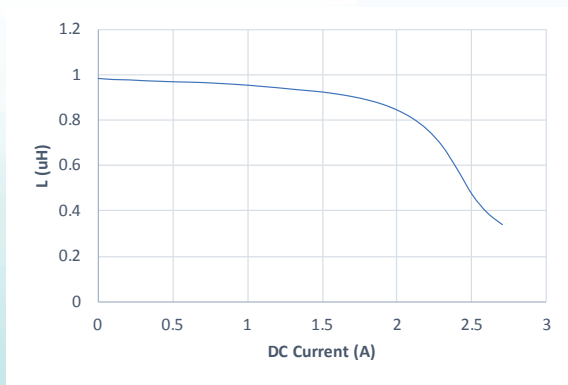
HNT2510MTR47



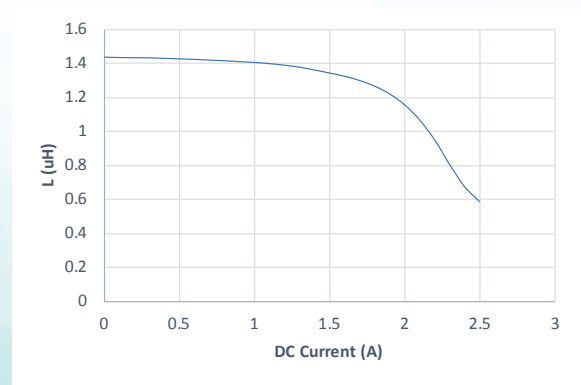
HNT2510MTR68



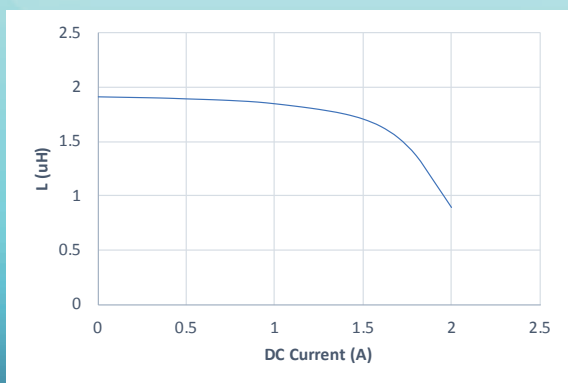
HNT2510MT1R0



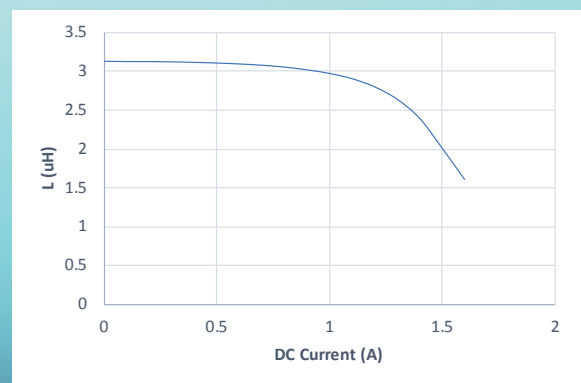
HNT2510MT1R5



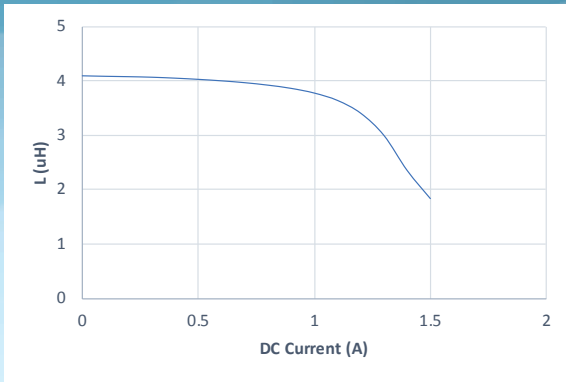
HNT2510MT2R2



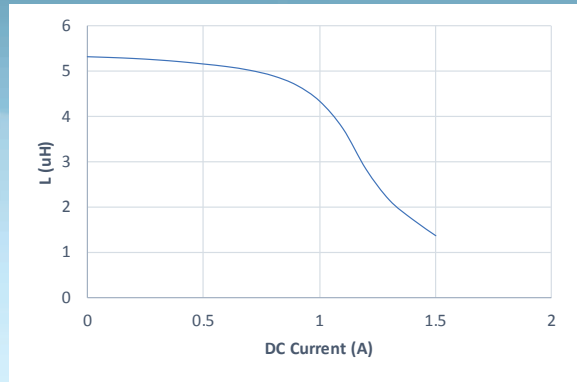
HNT2510MT3R3



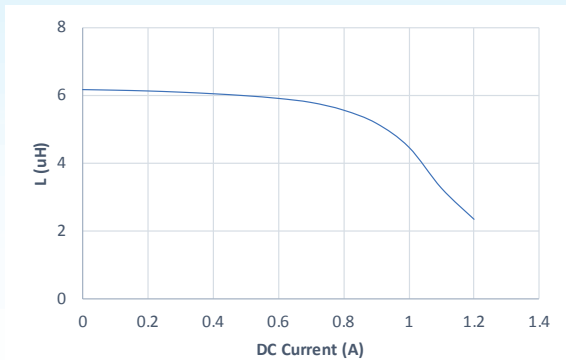
HNT2510MT4R7



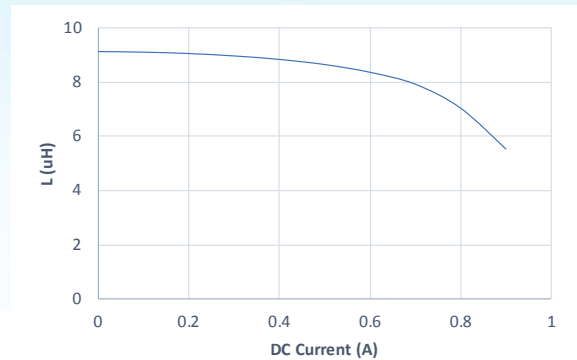
HNT2510MT5R6



HNT2510MT6R8



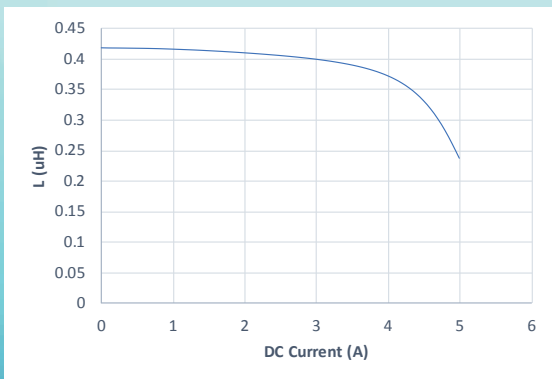
HNT2510MT100



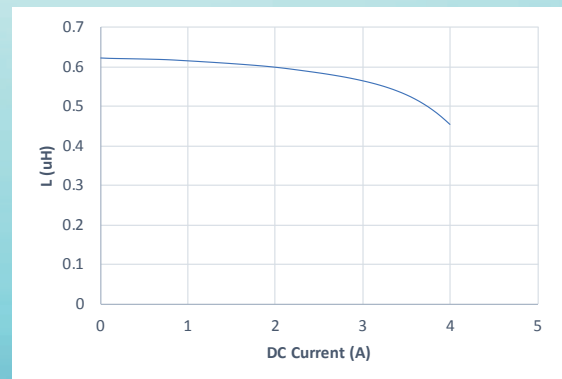
HNT2512 

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

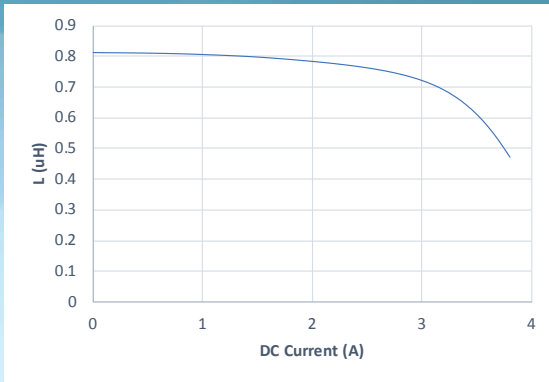
HNT2512MTR47



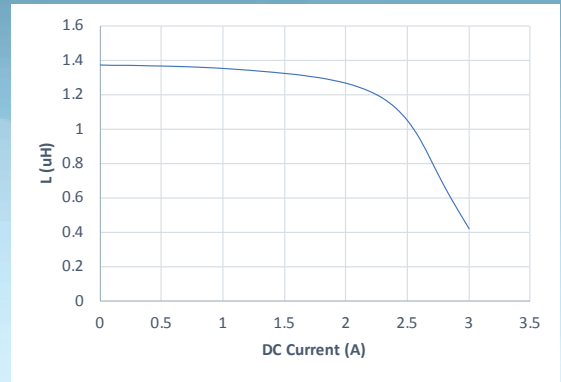
HNT2512MTR68



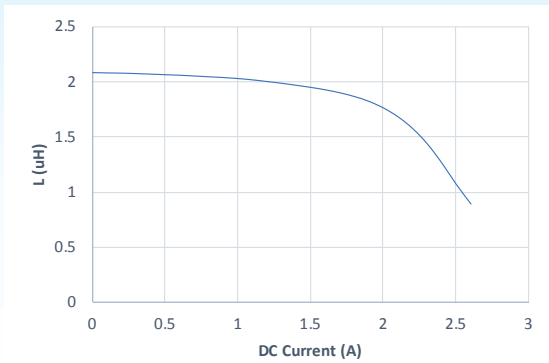
HNT2512MT1R0



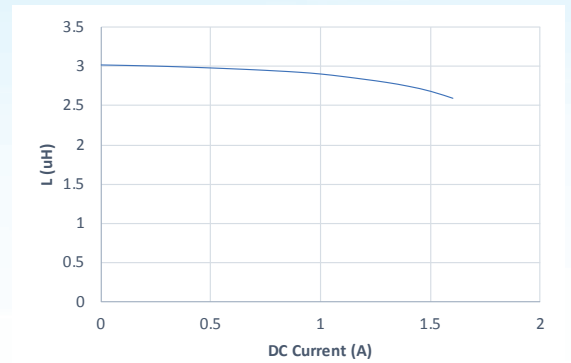
HNT2512MT1R5



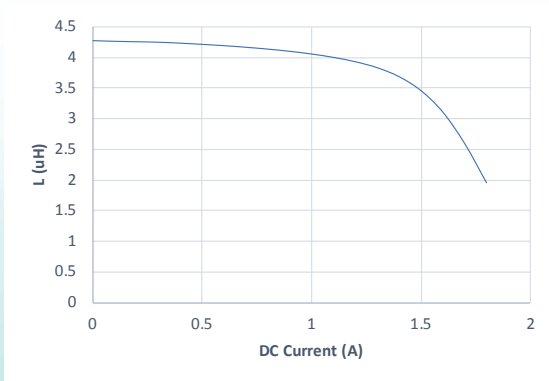
HNT2512MT2R2



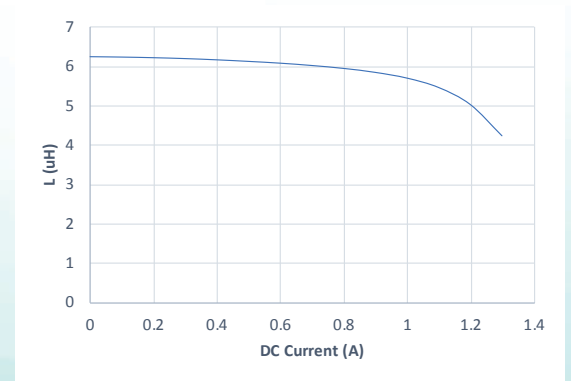
HNT2512MT3R3



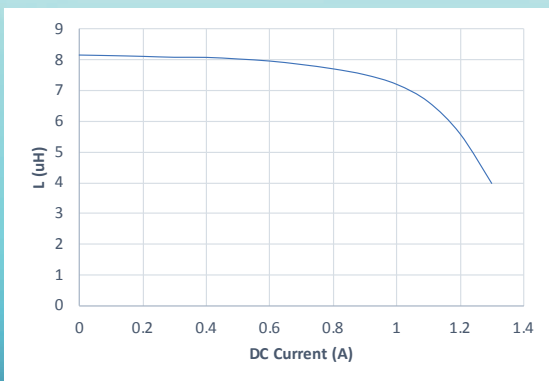
HNT2512MT4R7



HNT2512MT6R8



HNT2512MT100



Ordering information

HNT - 2508- M - T - 1R0

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

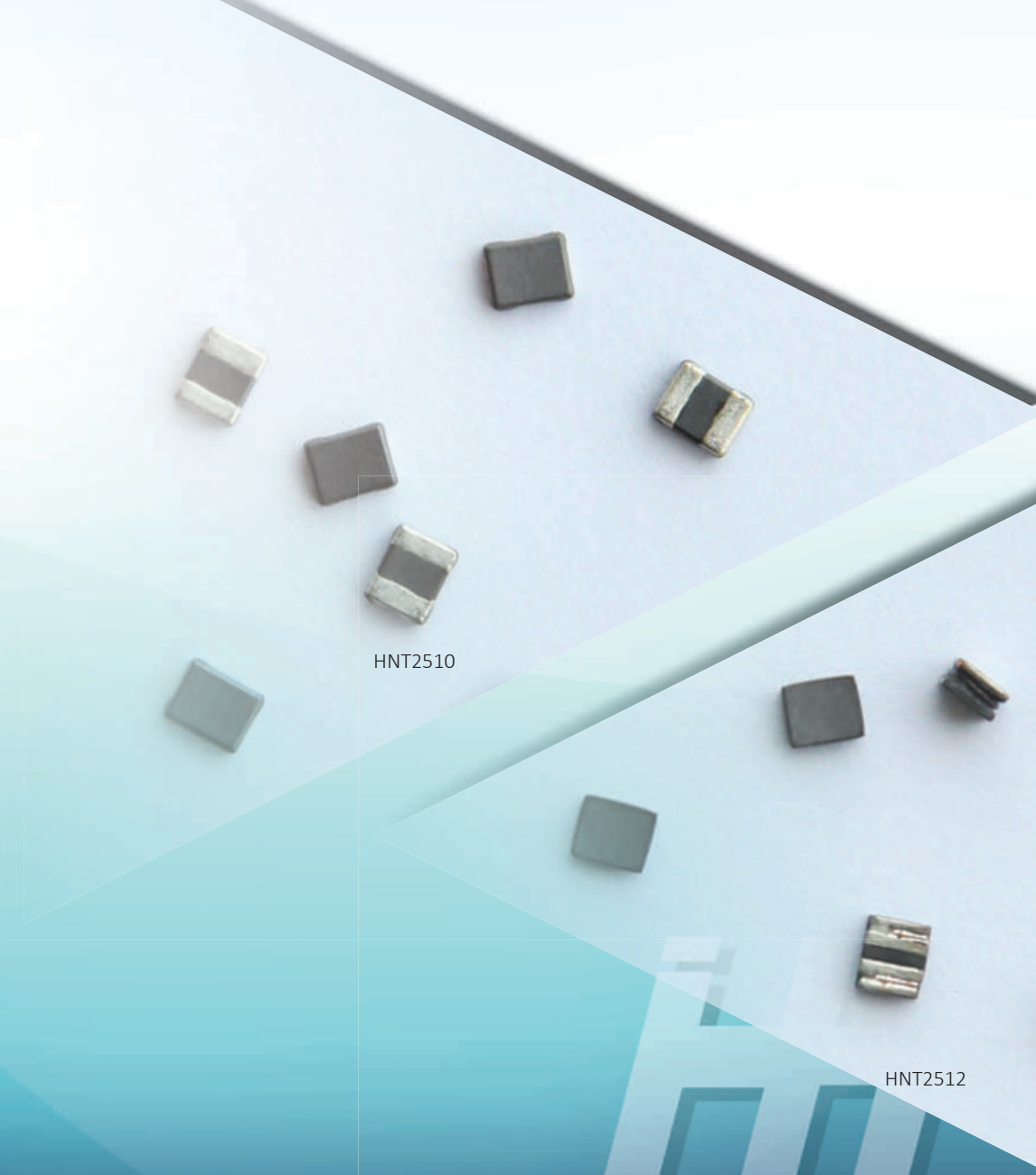
- (1) Type : SMD Power Inductor
- (2) Size : 2508 is size
- (3) Tolerance : M=20%
- (4) Packaging style : Taping Reel
- (5) Inductance : R47 for 0.47uH, 1R0 for 1.0uH, 100 for 10uH...

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)

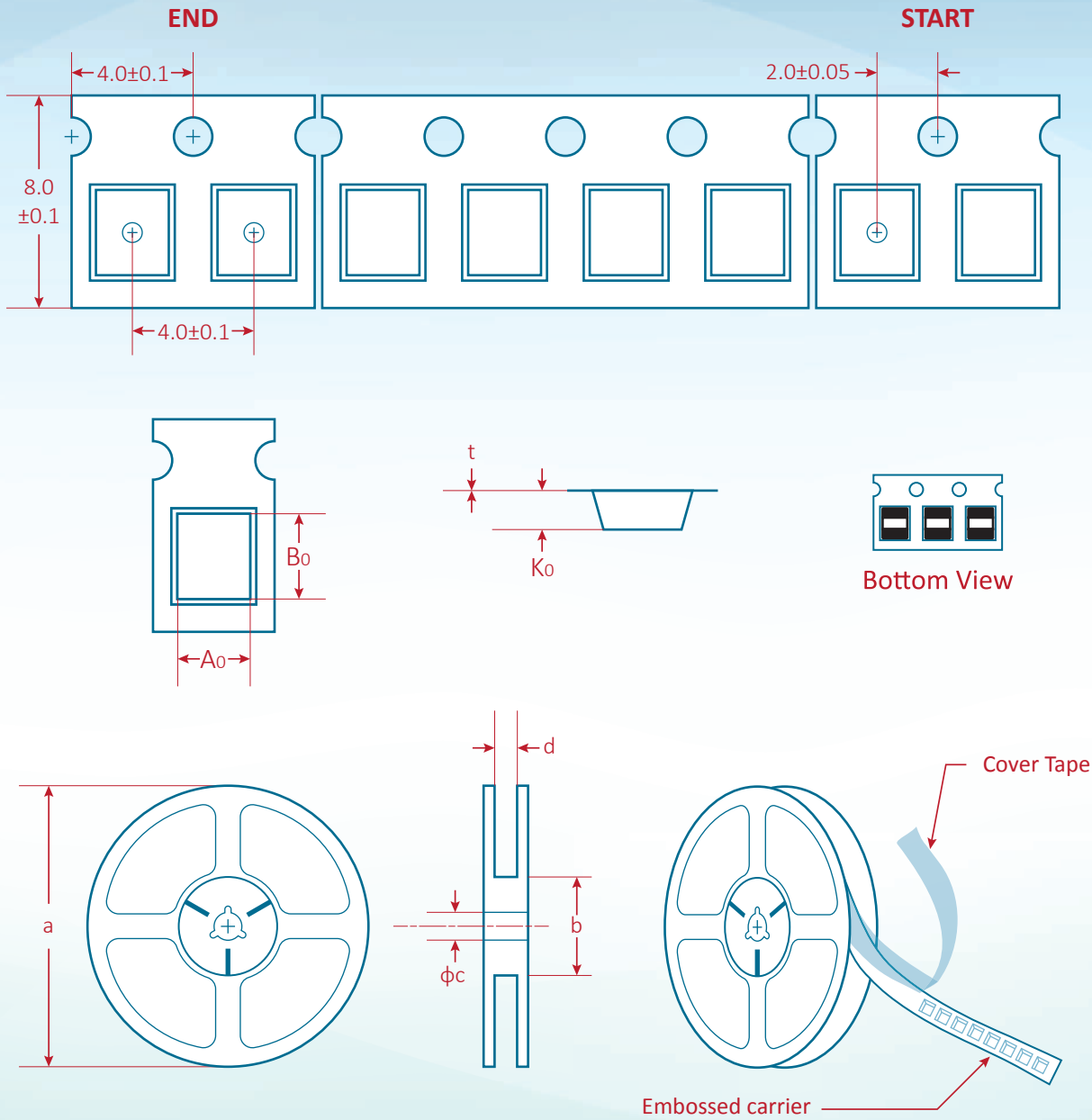
Test equipment

- 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