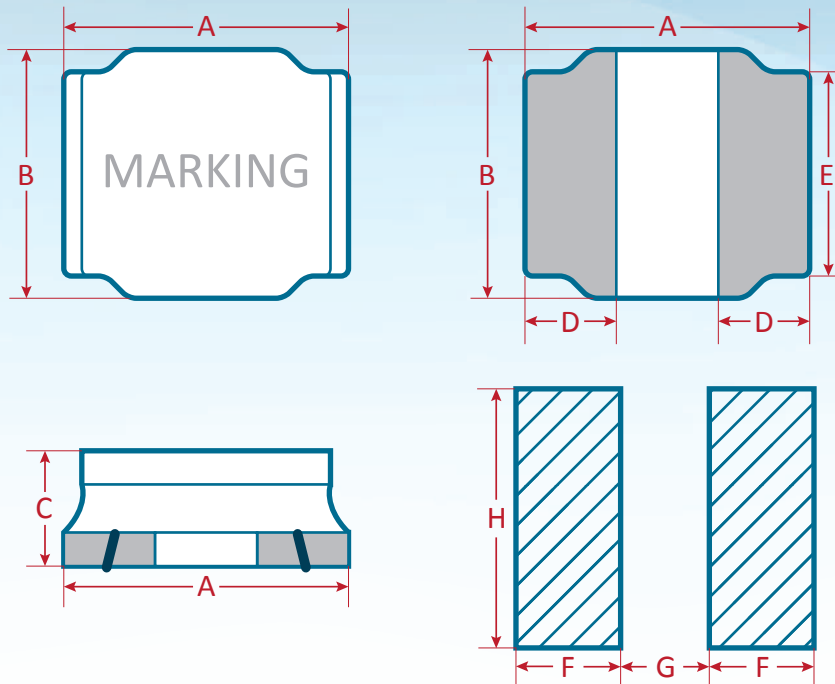




# HNT Series

## SMD Power Inductor

Shape and Dimensions(mm):

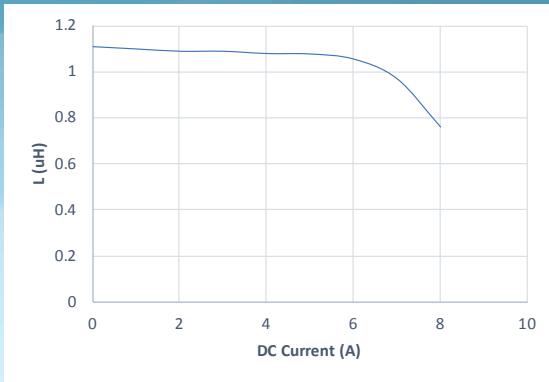


Item	A	B	C	D	E	F	G	H
HNT5040	5.0±0.2	5.0±0.2	4.0 <sup>+0.2</sup> <sub>-0.3</sub>	1.6±0.3	4.0 Typ.	1.5 Typ.	2.1 Typ.	4.0 Typ.

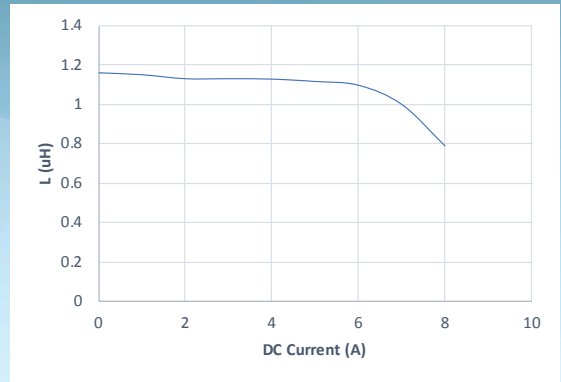
### HNT5040

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

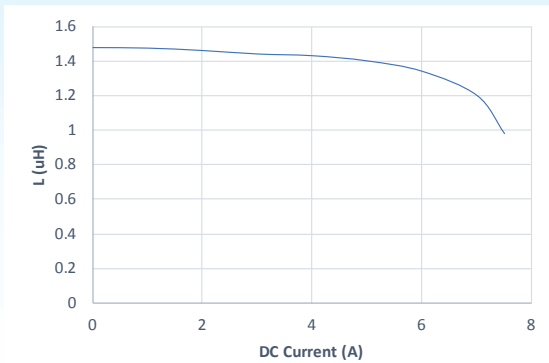
HNT5040NT1R0



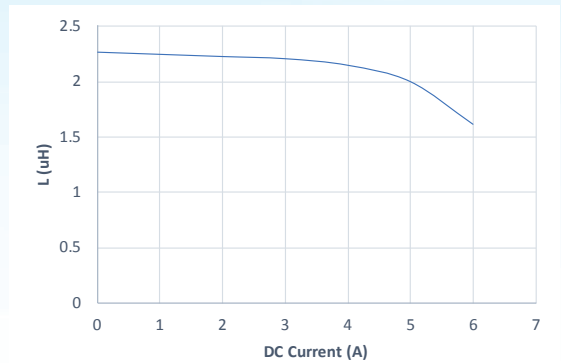
HNT5040MT1R2



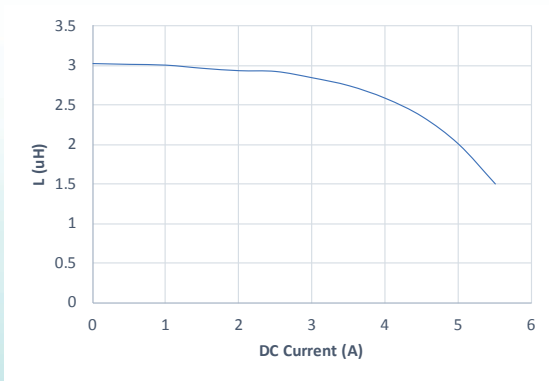
HNT5040MT1R5



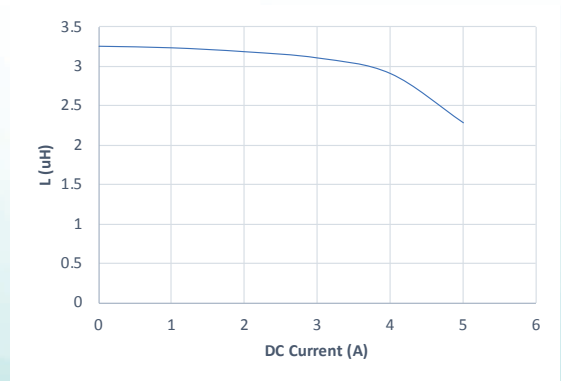
HNT5040MT2R2



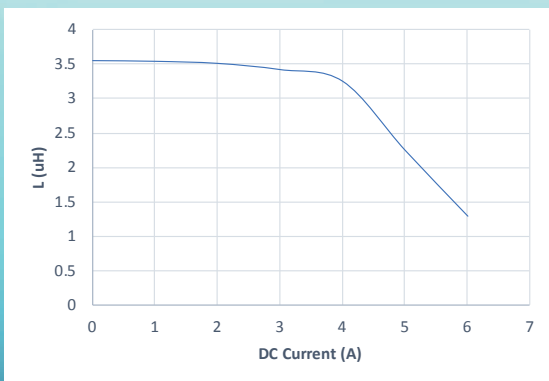
HNT5040MT3R0



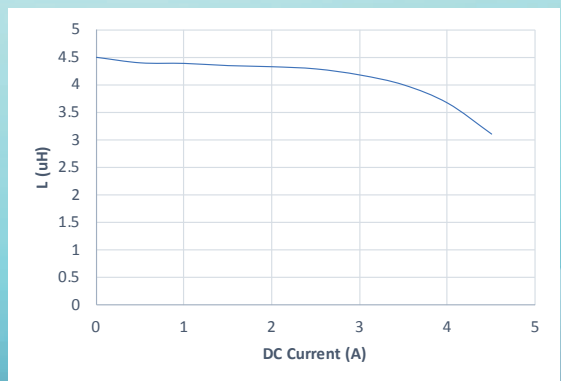
HNT5040MT3R3



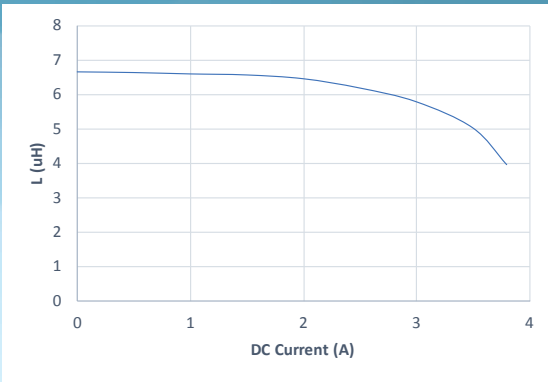
HNT5040MT3R6



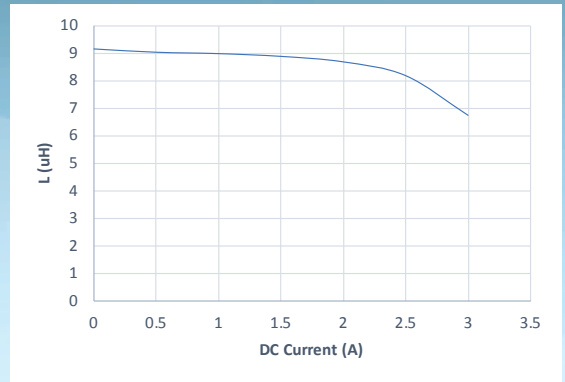
HNT5040MT4R7



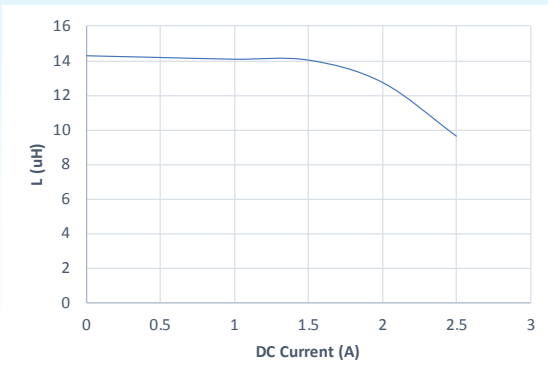
HNT5040MT6R8



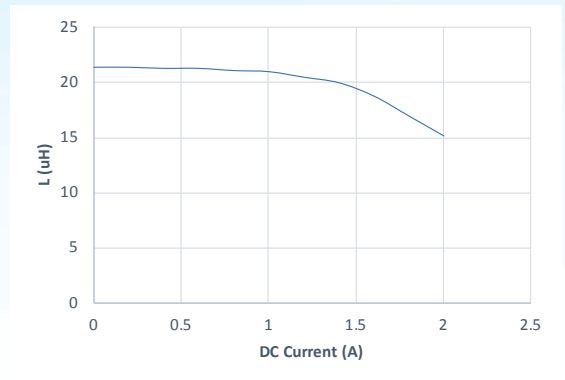
HNT5040MT100



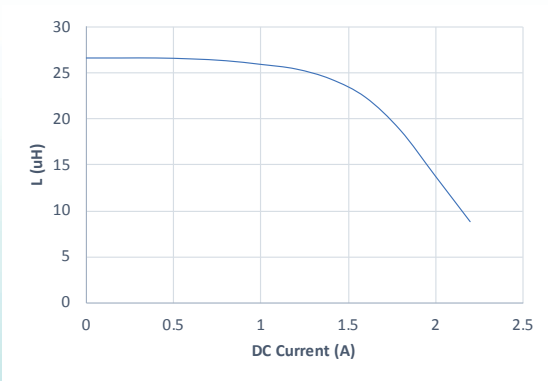
HNT5040MT150



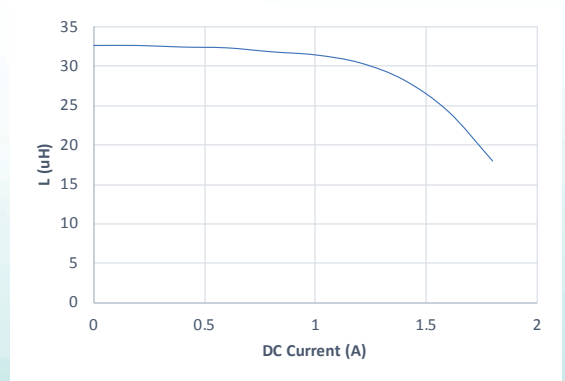
HNT5040MT220



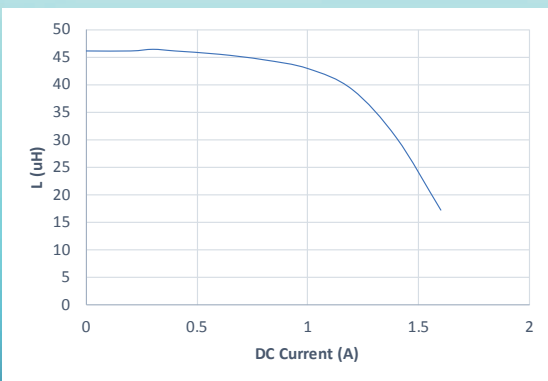
HNT5040MT270



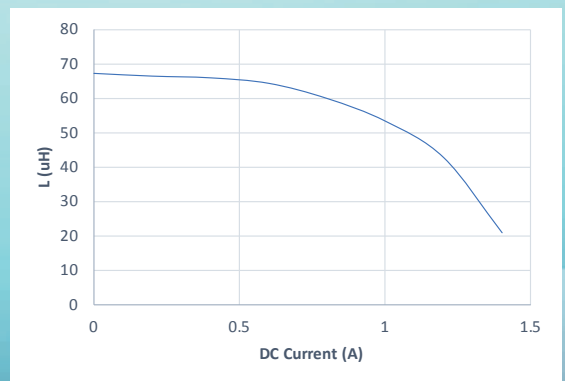
HNT5040MT330



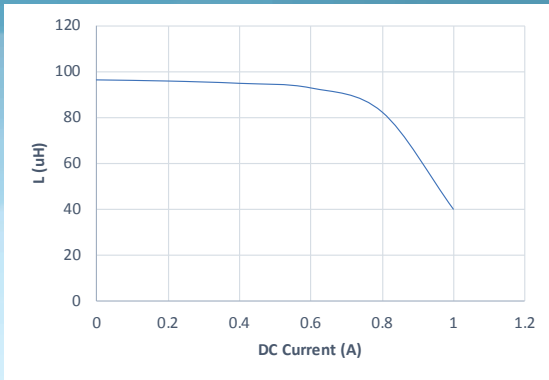
HNT5040MT470



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 : -40°C to 125°C (Including self-temperature rise)

**Test equipment**

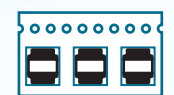
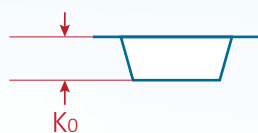
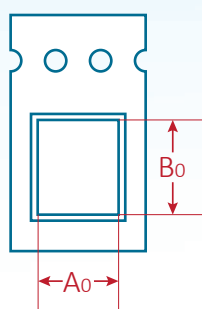
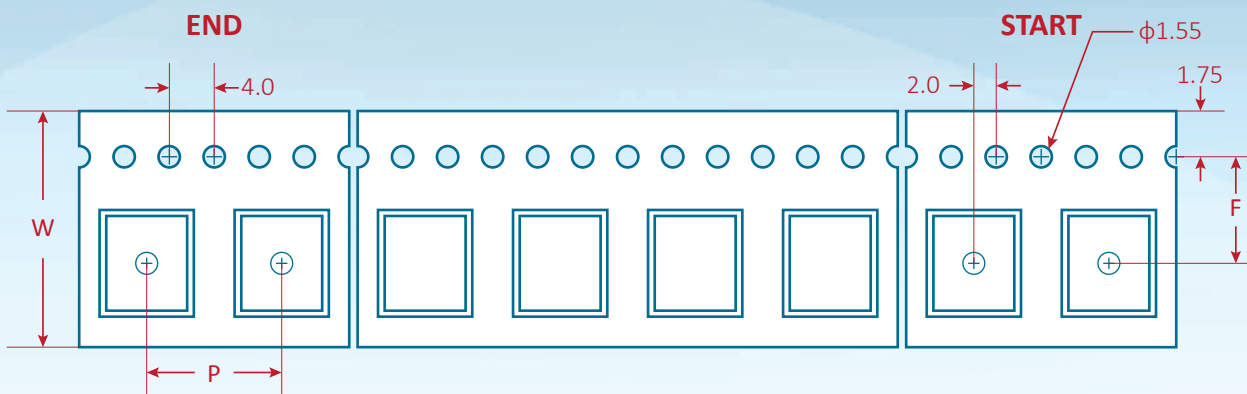
- L : Agilent/ HP4284A+ Agilent/ HP42841A, 100kHz, 1V
- DCR : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/ HP4284A, 100kHz, 1V



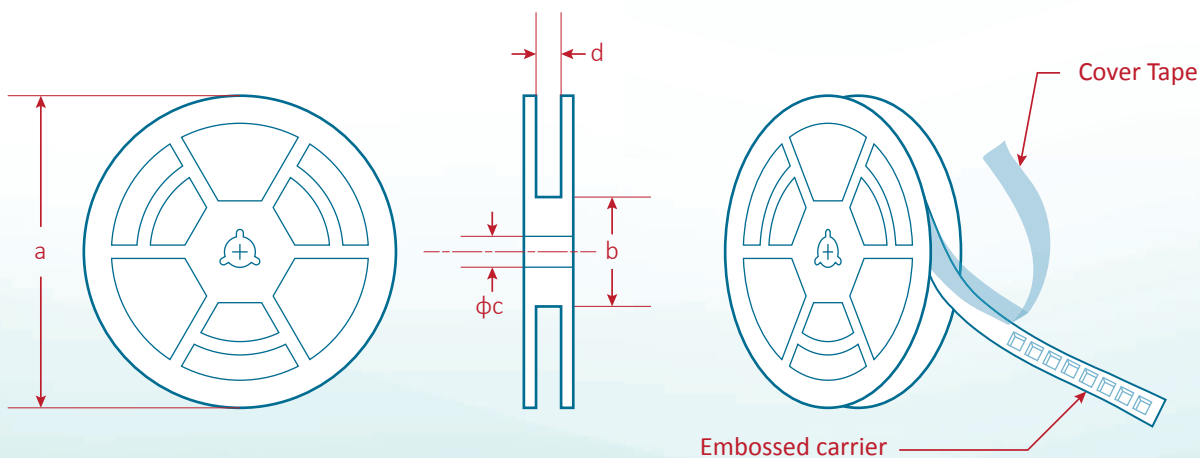
HNT5040

# Packing

Dimensions in mm



Bottom View



Embossed carrier

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