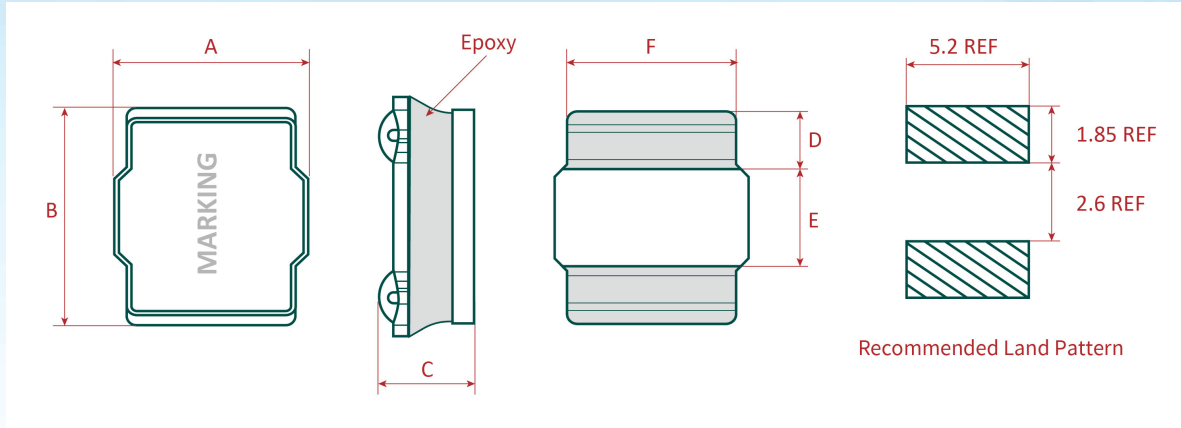


# HNT Series

## SMD Power Inductor

Shape and Dimensions(mm):



Item	A	B	C	D	E	F
HNT6045	6.0±0.2	6.0±0.2	4.5 Max.	1.55 REF.	2.9 REF	4.9 REF.

### HNT6045

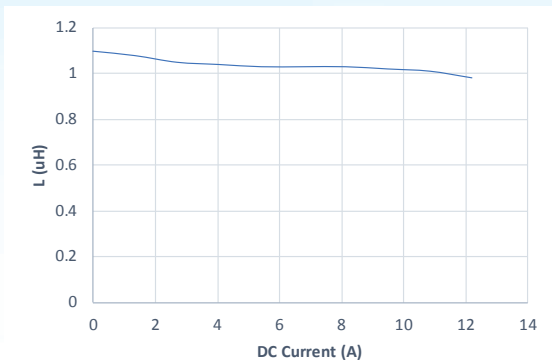
Part No.	Inductance (uH)	DCR(mΩ) ±30%	Isat(A)		Irms(A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT6045MT1R0	1.0	12	12.2	10.98	6.5	5.85	20
HNT6045MT1R5	1.5	15	10.4	9.36	5.9	5.31	20
HNT6045MT1R8	1.8	17	9.6	8.64	5.6	5.04	20
HNT6045MT2R2	2.2	18.4	8.8	7.92	5.1	4.59	20
HNT6045MT2R3	2.3	19	8.8	7.92	5.0	4.5	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 (uH)	DCR(mΩ) ±30%	Isat(A)		I <sub>rms</sub> (A)		Tolerance (±%)
			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

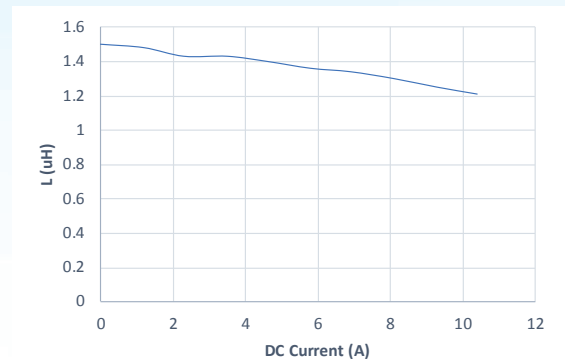
  

Part No.	Inductance (uH)	DCR(mΩ) Max.	Isat(A)		I <sub>rms</sub> (A)		Tolerance (±%)
			Typ.	Max.	Typ.	Max.	
HNT6045MT221	220	2000	N/A	0.9	N/A	0.5	20
HNT6045MT331	330	2500	N/A	0.8	N/A	0.4	20
HNT6045MT471	470	3300	N/A	0.7	N/A	0.35	20

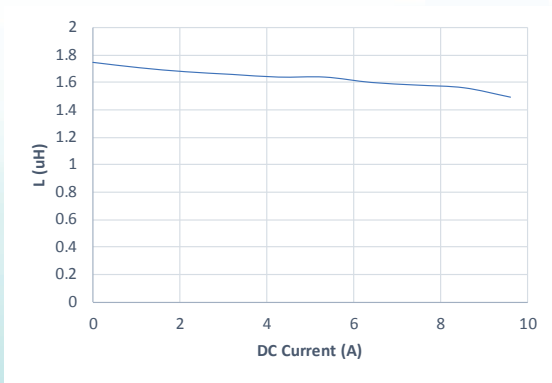
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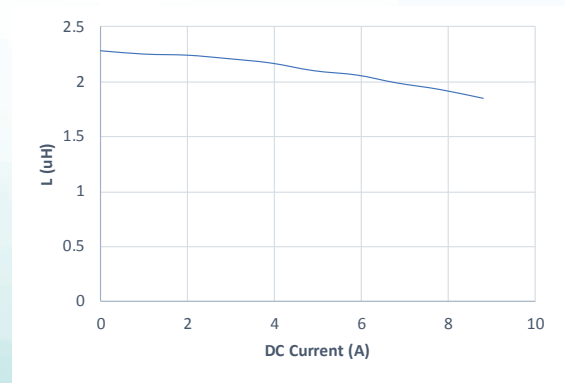
HNT6045MT1R5



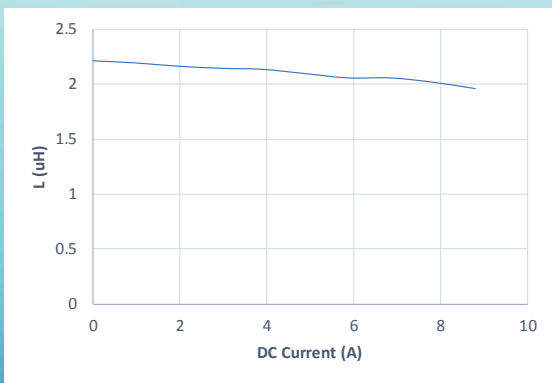
HNT6045MT1R8



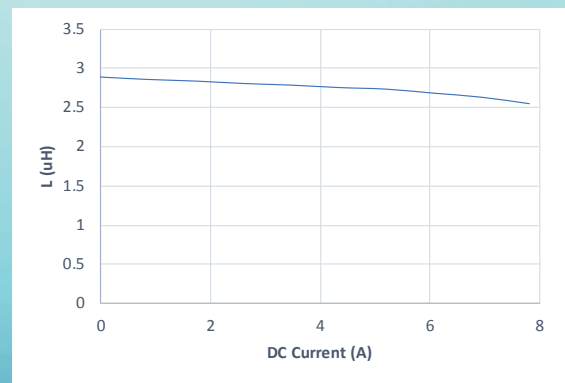
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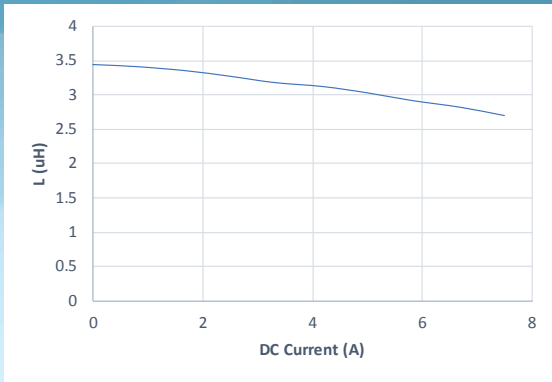
HNT6045MT2R3



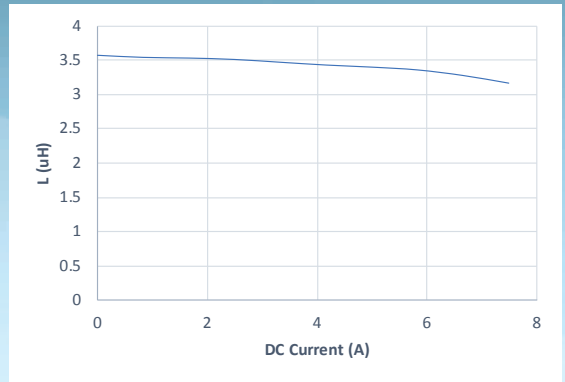
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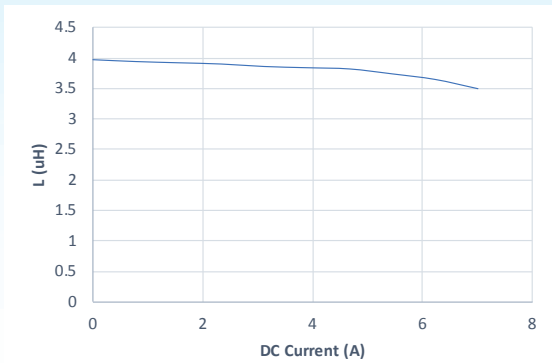
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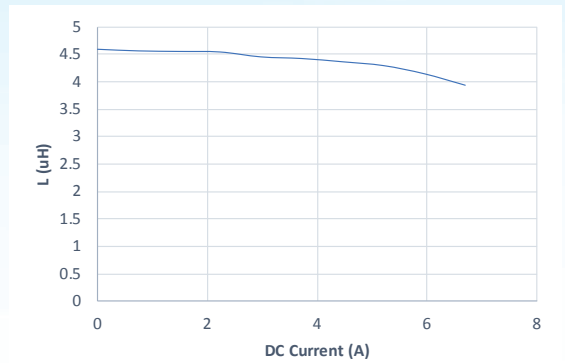
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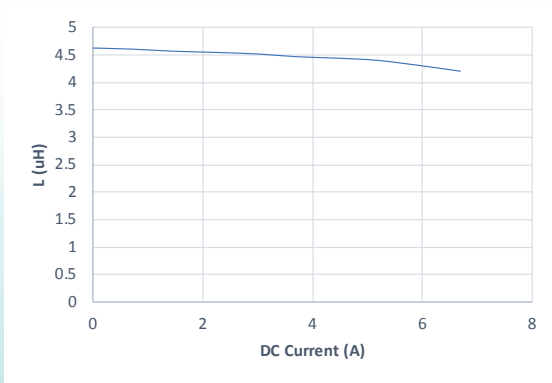
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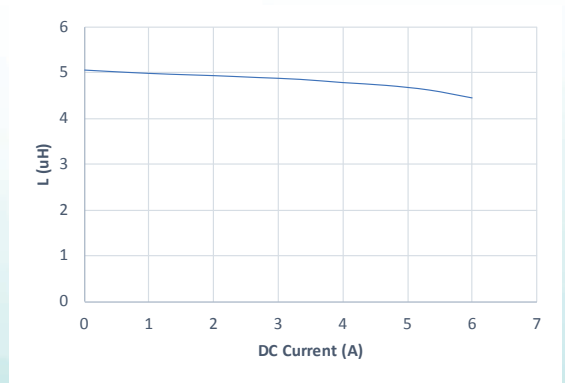
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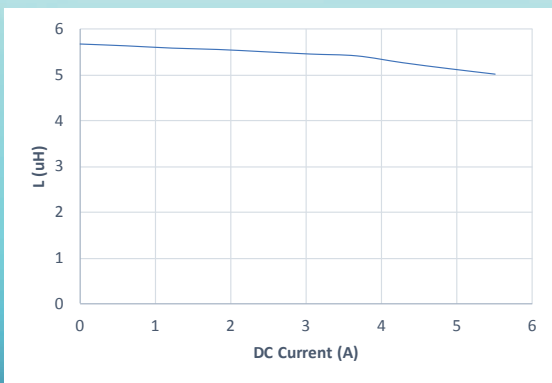
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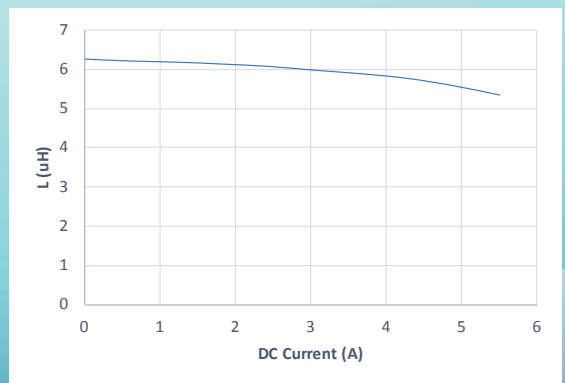
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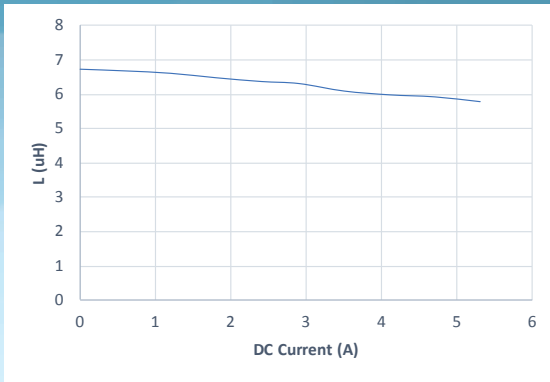
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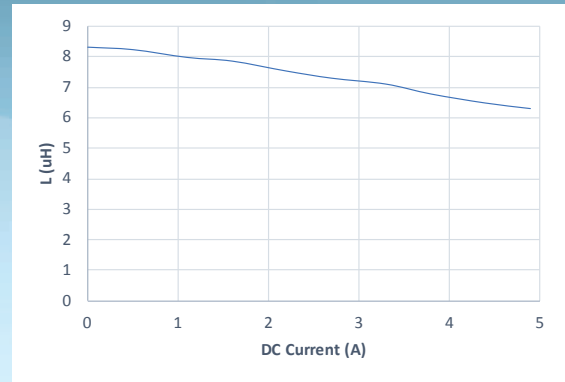
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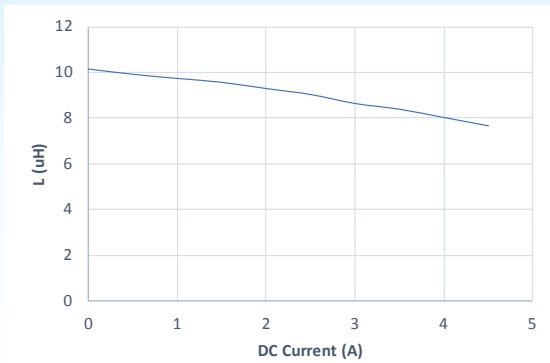
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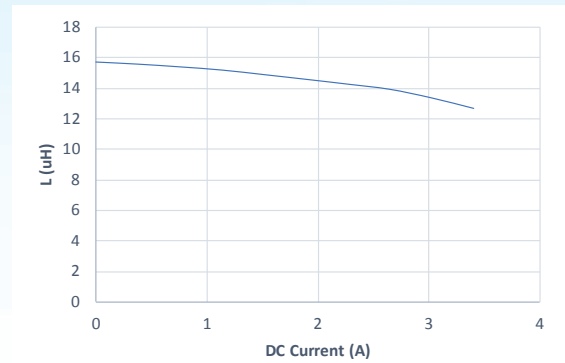
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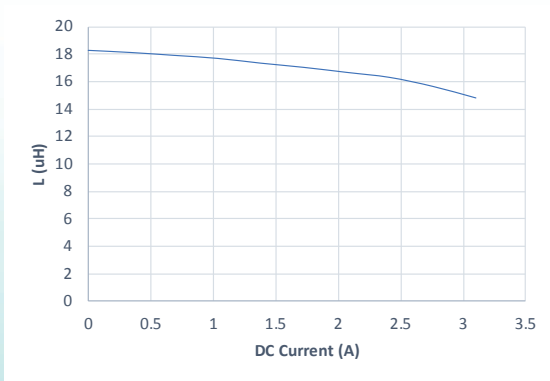
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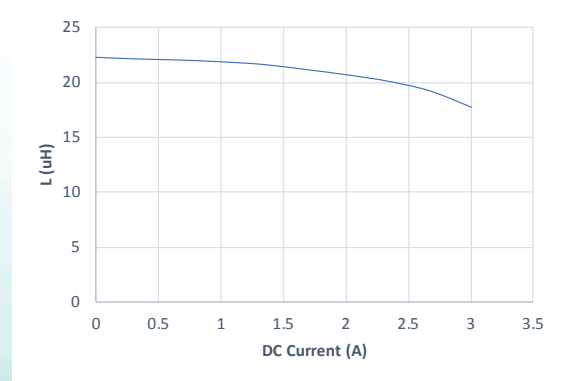
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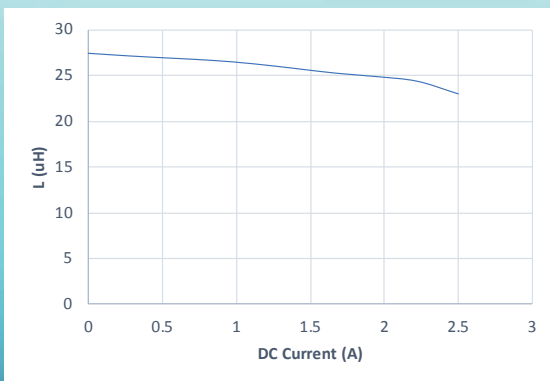
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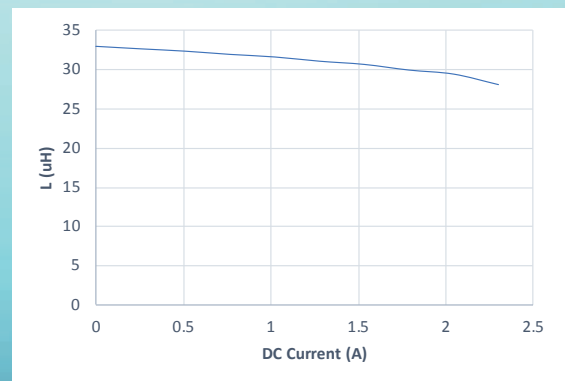
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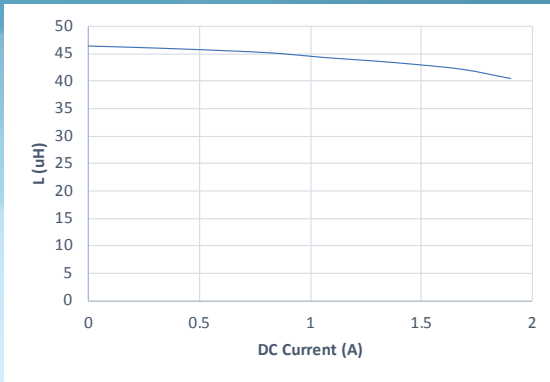
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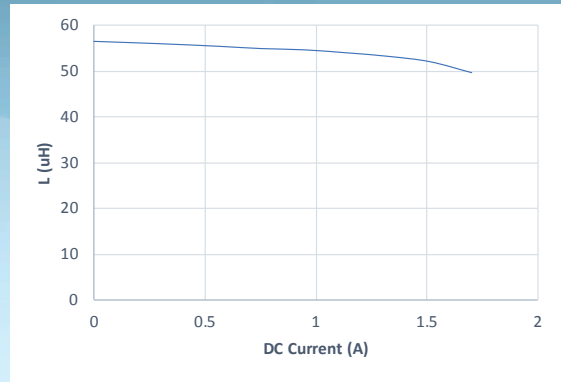
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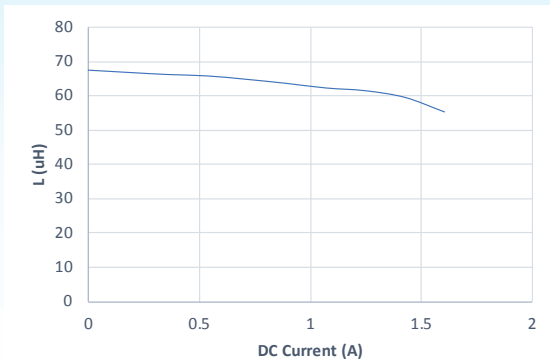
HNT6045MT470



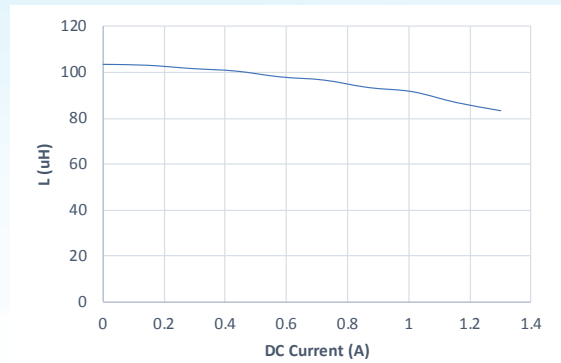
HNT6045MT560



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 : -40°C to +125°C

### Test equipment

- Test Frequency : 100KHz, 1V
- L : CH1062 LCR meter or equivalent
- DCR : 502BC or equivalent

### Marking information:

- 1.6R8=6.8uH
- 2.印字顏色及大小,會依印字網版有所不同



HNT6045