

THNB Series

Through-hole Inductor

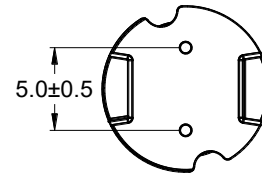
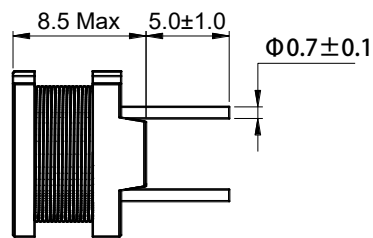
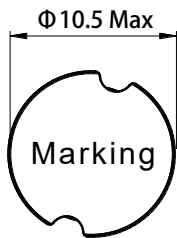
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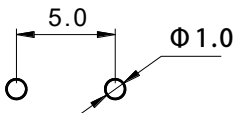
FEATURES

- High reliability, high consistency inductance.
- High saturation current
- Lead free product, RoHS compliant.
- Widely used in power supply, DC-DC converter, computer and peripherals, air-condition, home electric appliance, and etc.
- Operating temperature : -40°C ~ +125°C (Including coil's temperature rise)
- Quantity : 200 pcs

Dimensions: [mm]



Land Pattern: [mm]



Schematic:



Electrical Properties:

Part No.	Inductance (μ H) $\pm 10\%$	D.C.R. (m Ω)		Saturation current (A)		Temperature rise current (A)
		Typical	Max	Typical	Max	Typical
THNB1008-100K	10.0	24.1	29.0	8.40	6.72	4.88
THNB1008-120K	12.0	26.5	31.8	8.00	6.40	4.65
THNB1008-150K	15.0	30.4	36.5	7.00	5.60	4.14
THNB1008-180K	18.0	39.3	47.1	6.40	5.12	3.64
THNB1008-220K	22.0	43.8	52.6	5.80	4.64	3.45
THNB1008-270K	27.0	57.6	69.1	5.30	4.24	3.01
THNB1008-330K	33.0	63.8	76.6	5.20	4.16	2.86
THNB1008-390K	39.0	74.1	88.9	4.70	3.76	2.65
THNB1008-470K	47.0	102	122	4.00	3.20	2.26

Part No.	Inductance (μH) $\pm 10\%$	D.C.R. ($\text{m}\Omega$)		Saturation current (A)		Temperature rise current (A)
		Typical	Max	Typical	Max	Typical
THNB1008-560K	56.0	120	144	3.80	3.04	2.09
THNB1008-680K	68.0	135	162	3.30	2.64	1.96
THNB1008-820K	82.0	163	195	2.95	2.36	1.79
THNB1008-101K	100	183	220	2.80	2.24	1.69
THNB1008-121K	120	236	284	2.45	1.96	1.48
THNB1008-151K	150	273	327	2.25	1.80	1.38
THNB1008-181K	180	312	374	2.10	1.68	1.29
THNB1008-221K	220	390	468	1.85	1.48	1.15
THNB1008-271K	270	489	587	1.73	1.38	1.02
THNB1008-331K	330	596	715	1.60	1.28	0.93
THNB1008-391K	390	724	869	1.45	1.16	0.84
THNB1008-471K	470	929	1,115	1.32	1.06	0.74
THNB1008-561K	560	1,070	1,280	1.22	0.98	0.69
THNB1008-681K	680	1,250	1,500	1.10	0.88	0.64
THNB1008-821K	820	1,490	1,780	0.98	0.78	0.59
THNB1008-102K	1,000	1,710	2,050	0.90	0.72	0.55

All data is tested based on 25°C ambient temperature.

Inductance measure condition at 1kHz, 0.25V

Saturation current: the value of DC current when the inductance decrease 20% of its initial value.

Temperature rise current: the actual value of DC current when the temperature rise is $\Delta T 40^\circ\text{C}$ ($T_a = 25^\circ\text{C}$).

Typical Electrical Characteristics:

Saturation current VS temperature rise current curve

