

THTB Series

Through-hole Inductor

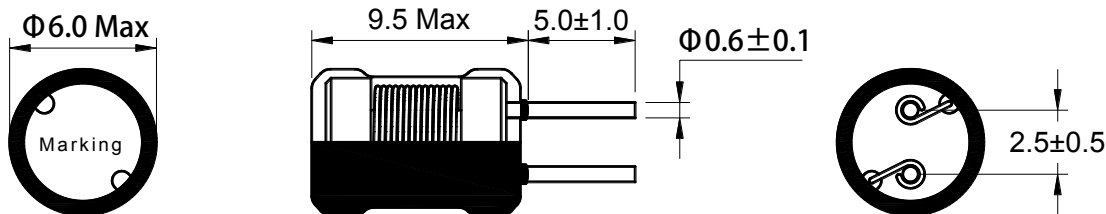
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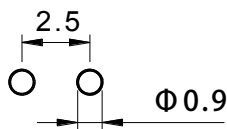
FEATURES

- High reliability, high consistency inductance.
- Lead free product, RoHS compliant.
- Core is encapsulated by UL heat shrink tube to provide excellent mechanic and environmental protection.
- 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)

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
		Typical	Max	Typical	Max	
THTB0507-100K	10.0	42.0	50.4	2.30	1.84	2.96
THTB0507-120K	12.0	52.9	63.5	2.10	1.68	2.64
THTB0507-150K	15.0	60.2	72.2	1.70	1.36	2.48
THTB0507-180K	18.0	70.3	84.3	1.65	1.32	2.09
THTB0507-220K	22.0	83.9	101	1.40	1.12	1.92
THTB0507-270K	27.0	107	128	1.25	1.00	1.70
THTB0507-330K	33.0	120	144	1.20	0.96	1.60

Part No.	Inductance (μH) $\pm 10\%$	D.C.R. ($\text{m}\Omega$)		Saturation current (A)		Temperature rise current (A) Typical
		Typical	Max	Typical	Max	
THTB0507-390K	39.0	154	185	1.15	0.92	1.39
THTB0507-470K	47.0	173	207	1.10	0.88	1.32
THTB0507-560K	56.0	237	285	0.97	0.78	1.12
THTB0507-680K	68.0	266	319	0.90	0.72	1.06
THTB0507-820K	82.0	300	360	0.80	0.64	1.00
THTB0507-101K	100	394	473	0.75	0.60	0.87
THTB0507-121K	120	431	517	0.63	0.50	0.83
THTB0507-151K	150	581	697	0.56	0.45	0.72
THTB0507-181K	180	647	777	0.49	0.39	0.68
THTB0507-221K	220	738	886	0.45	0.36	0.64
THTB0507-271K	270	931	1,117	0.40	0.32	0.57
THTB0507-331K	330	1,088	1,305	0.38	0.30	0.52
THTB0507-391K	390	1,434	1,721	0.36	0.29	0.45
THTB0507-471K	470	1,601	1,921	0.32	0.26	0.43
THTB0507-561K	560	1,987	2,385	0.28	0.22	0.39
THTB0507-681K	680	2,276	2,731	0.27	0.22	0.36
THTB0507-821K	820	3,157	3,788	0.23	0.18	0.31
THTB0507-102K	1,000	3,681	4,417	0.22	0.18	0.28

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:

