

THTB Series

Through-hole Inductor

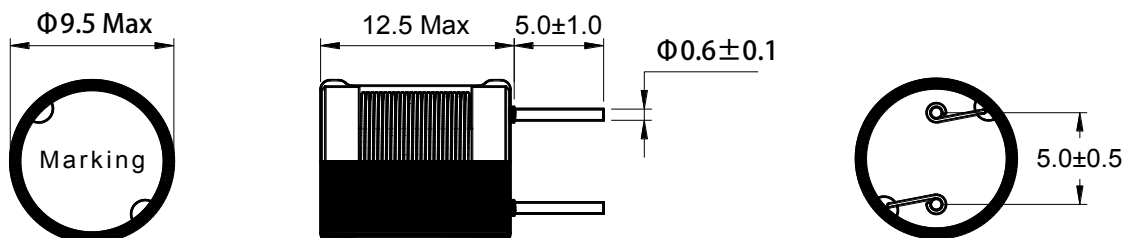
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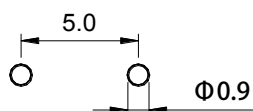
FEATURES

- 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)	D.C.R. ($m\Omega$)		Saturation current (A)		Temperature rise current (A) Typical
		Typical	Max	Typical	Max	
THTB0810-1R0M	1.00 $\pm 20\%$	5.50	6.60	10.5	8.40	9.49
THTB0810-2R2M	2.20 $\pm 20\%$	8.10	9.72	7.20	5.76	7.82
THTB0810-3R3M	3.30 $\pm 20\%$	10.5	12.6	5.80	4.64	6.87
THTB0810-4R7M	4.70 $\pm 20\%$	12.5	15.0	5.00	4.00	6.29
THTB0810-6R8M	6.80 $\pm 20\%$	13.9	16.7	4.40	3.52	5.96
THTB0810-100K	10.0 $\pm 10\%$	20.4	24.5	3.70	2.96	4.93
THTB0810-120K	12.0 $\pm 10\%$	23.2	27.9	3.20	2.56	4.62
THTB0810-150K	15.0 $\pm 10\%$	25.9	31.1	2.90	2.32	4.37
THTB0810-180K	18.0 $\pm 10\%$	29.7	35.6	2.80	2.24	4.08
THTB0810-220K	22.0 $\pm 10\%$	36.6	43.9	2.45	1.96	3.68

Part No.	Inductance (μH)	D.C.R. ($\text{m}\Omega$)		Saturation current (A)		Temperature rise current (A) Typical
		Typical	Max	Typical	Max	
THTB0810-270K	27.0 $\pm 10\%$	44.0	52.8	2.20	1.76	3.42
THTB0810-330K	33.0 $\pm 10\%$	47.5	57.0	2.05	1.64	3.22
THTB0810-390K	39.0 $\pm 10\%$	61.7	74.0	1.85	1.48	2.79
THTB0810-470K	47.0 $\pm 10\%$	70.7	84.8	1.60	1.28	2.61
THTB0810-560K	56.0 $\pm 10\%$	92.0	110	1.54	1.23	2.36
THTB0810-680K	68.0 $\pm 10\%$	103	124	1.36	1.09	2.19
THTB0810-820K	82.0 $\pm 10\%$	133	160	1.30	1.04	1.92
THTB0810-101K	100 $\pm 10\%$	160	192	1.15	0.92	1.77
THTB0810-121K	120 $\pm 10\%$	181	217	1.10	0.88	1.65
THTB0810-151K	150 $\pm 10\%$	210	252	0.95	0.76	1.55
THTB0810-181K	180 $\pm 10\%$	268	322	0.87	0.70	1.36
THTB0810-221K	220 $\pm 10\%$	311	373	0.80	0.64	1.26
THTB0810-271K	270 $\pm 10\%$	386	463	0.67	0.54	1.13
THTB0810-331K	330 $\pm 10\%$	441	529	0.64	0.51	1.07
THTB0810-391K	390 $\pm 10\%$	534	641	0.59	0.47	0.96
THTB0810-471K	470 $\pm 10\%$	668	802	0.53	0.42	0.85
THTB0810-561K	560 $\pm 10\%$	788	946	0.49	0.39	0.76
THTB0810-681K	680 $\pm 10\%$	1,046	1,255	0.47	0.38	0.66
THTB0810-821K	820 $\pm 10\%$	1,282	1,538	0.39	0.31	0.57
THTB0810-102K	1,000 $\pm 10\%$	1,596	1,915	0.37	0.30	0.51
THTB0810-222K	2,200 $\pm 10\%$	3,080	3,696	0.25	0.20	0.37
THTB0810-472K	4,700 $\pm 10\%$	6,400	7,680	0.19	0.16	0.26
THTB0810-103K	10,000 $\pm 10\%$	14,400	17,200	0.13	0.11	0.17

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:

