

THNB Series

Through-hole Inductor

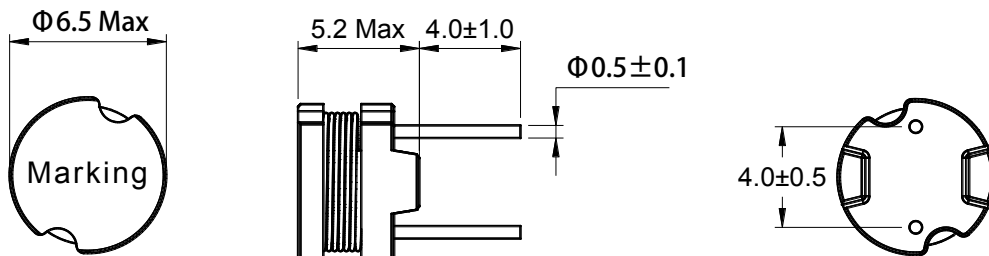
Size 0605



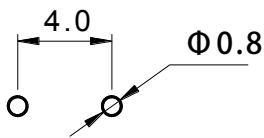
FEATURES

- 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)

Dimensions: [mm]



Land Pattern: [mm]



Schematic:



Electrical Properties:

Part No.	Inductance (μH)	D.C.R. ($\text{m}\Omega$)		Saturation current (A)		Temperature rise current (A) Typical
		Typical	Max	Typical	Max	
THNB0605-1R2M	1.20 $\pm$ 20%	10.1	12.1	7.10	5.68	5.87
THNB0605-2R2M	2.20 $\pm$ 20%	14.4	17.3	5.80	4.64	4.74
THNB0605-3R3M	3.30 $\pm$ 20%	20.7	24.8	4.60	3.68	4.04
THNB0605-4R7M	4.70 $\pm$ 20%	28.2	33.9	3.80	3.04	3.39
THNB0605-6R8M	6.80 $\pm$ 20%	43.5	52.2	3.20	2.56	2.73
THNB0605-8R2M	8.20 $\pm$ 20%	51.9	62.3	2.90	2.32	2.50
THNB0605-100K	10.0 $\pm$ 10%	61.8	74.1	2.70	2.16	2.29
THNB0605-120K	12.0 $\pm$ 10%	74.6	89.6	2.40	1.92	2.08
THNB0605-150K	15.0 $\pm$ 10%	87.9	105	2.20	1.76	1.92

Part No.	Inductance (μH)	D.C.R. ($\text{m}\Omega$)		Saturation current (A)		Temperature rise current (A) Typical
		Typical	Max	Typical	Max	
THNB0605-180K	$18.0 \pm 10\%$	106	128	2.00	1.60	1.75
THNB0605-220K	$22.0 \pm 10\%$	135	162	1.85	1.48	1.55
THNB0605-270K	$27.0 \pm 10\%$	156	188	1.65	1.32	1.45
THNB0605-330K	$33.0 \pm 10\%$	193	232	1.50	1.20	1.26
THNB0605-390K	$39.0 \pm 10\%$	214	257	1.40	1.12	1.23
THNB0605-470K	$47.0 \pm 10\%$	270	324	1.23	0.98	1.10
THNB0605-560K	$56.0 \pm 10\%$	312	374	1.12	0.90	1.02
THNB0605-680K	$68.0 \pm 10\%$	384	461	1.02	0.82	0.92
THNB0605-820K	$82.0 \pm 10\%$	436	524	0.95	0.76	0.86
THNB0605-101K	$100 \pm 10\%$	543	652	0.83	0.66	0.80
THNB0605-121K	$120 \pm 10\%$	664	797	0.77	0.62	0.65
THNB0605-151K	$150 \pm 10\%$	813	976	0.70	0.56	0.59
THNB0605-181K	$180 \pm 10\%$	922	1,107	0.63	0.50	0.55
THNB0605-221K	$220 \pm 10\%$	1,154	1,385	0.57	0.46	0.49
THNB0605-271K	$270 \pm 10\%$	1,363	1,636	0.52	0.42	0.46
THNB0605-331K	$330 \pm 10\%$	1,869	2,243	0.45	0.36	0.39
THNB0605-391K	$390 \pm 10\%$	2,083	2,500	0.42	0.34	0.37
THNB0605-471K	$470 \pm 10\%$	2,406	2,887	0.38	0.30	0.34
THNB0605-561K	$560 \pm 10\%$	3,040	3,648	0.37	0.30	0.30
THNB0605-681K	$680 \pm 10\%$	3,560	4,272	0.31	0.25	0.28
THNB0605-821K	$820 \pm 10\%$	4,560	5,472	0.30	0.24	0.24
THNB0605-102K	$1,000 \pm 10\%$	5,117	6,140	0.27	0.22	0.23

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:

