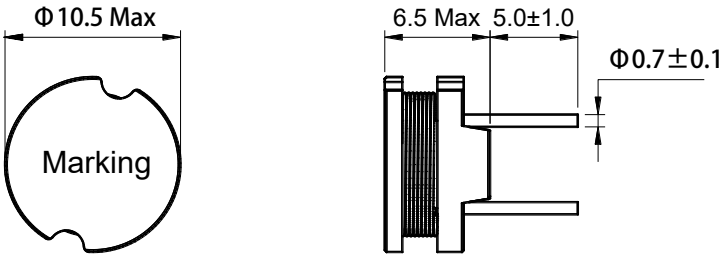
THNB Series
Through-hole Inductor
Size 1006

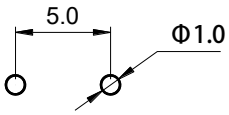
FEATURES

- 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℃ ～ +125℃ (Including coil's temperature rise)
- Quantity : 300 pcs

Dimensions: [mm]



Land Pattern: [mm]



Schematic:

Electrical Properties:

Part No.	Inductance (μH) ±10%	D.C.R. (mΩ)		Saturation current (A)		Temperature rise current (A)
		Typical	Max	Typical	Max	Typical
THNB1006-100K	10.0	34.8	41.7	7.70	6.16	3.67
THNB1006-120K	12.0	38.0	45.6	6.80	5.44	3.51
THNB1006-150K	15.0	48.1	57.7	6.50	5.20	3.12
THNB1006-180K	18.0	55.2	66.2	6.00	4.80	2.92
THNB1006-220K	22.0	73.8	88.6	5.40	4.32	2.52
THNB1006-270K	27.0	87.5	105	4.95	3.96	2.32
THNB1006-330K	33.0	98.3	118	4.60	3.68	2.18
THNB1006-390K	39.0	113	136	4.00	3.20	2.03
THNB1006-470K	47.0	140	168	3.60	2.88	1.83

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Part No.	Inductance (μH) ±10%	D.C.R. (mΩ)		Saturation current (A)		Temperature rise current (A)
		Typical	Max	Typical	Max	Typical
THNB1006-560K	56.0	159	191	3.40	2.72	1.72
THNB1006-680K	68.0	194	233	3.00	2.40	1.55
THNB1006-820K	82.0	223	268	2.80	2.24	1.45
THNB1006-101K	100	293	351	2.40	1.92	1.27
THNB1006-121K	120	328	394	2.20	1.76	1.20
THNB1006-151K	150	407	488	2.10	1.68	1.07
THNB1006-181K	180	523	628	1.85	1.48	0.95
THNB1006-221K	220	606	727	1.75	1.40	0.88
THNB1006-271K	270	779	935	1.56	1.25	0.78
THNB1006-331K	330	924	1,109	1.36	1.09	0.71
THNB1006-391K	390	1,055	1,266	1.30	1.04	0.67
THNB1006-471K	470	1,310	1,572	1.15	0.92	0.60
THNB1006-561K	560	1,534	1,840	1.08	0.86	0.55
THNB1006-681K	680	1,769	2,123	0.98	0.78	0.51
THNB1006-821K	820	2,283	2,740	0.88	0.70	0.45
THNB1006-102K	1,000	2,634	3,161	0.77	0.62	0.42

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

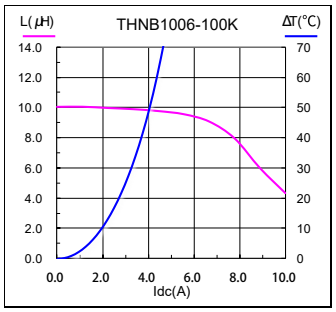
Inductance measure condition at 1kHz, 0.25V

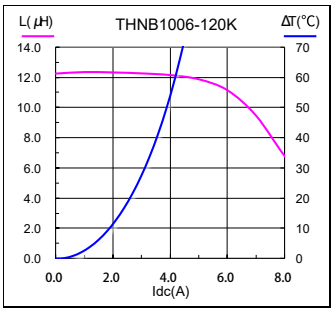
Saturation current：the value of DC current when the inductance decrease 20% of its initial value.

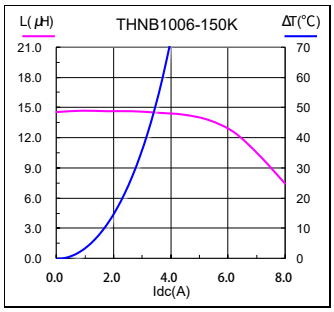
Temperature rise current：the actual value of DC current when the temperature rise is ΔT40°C(Ta=25°C).

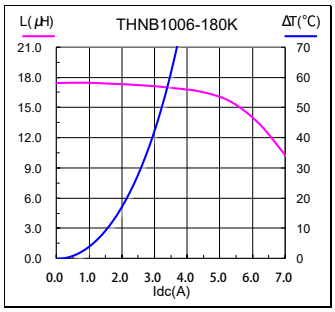
Typical Electrical Characteristics:

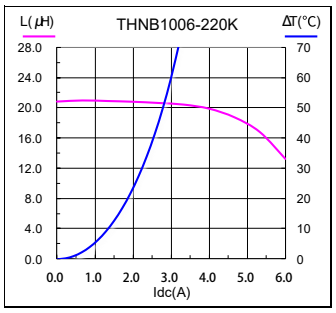
Saturation current VS temperature rise current curve

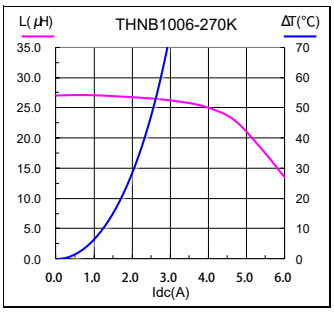


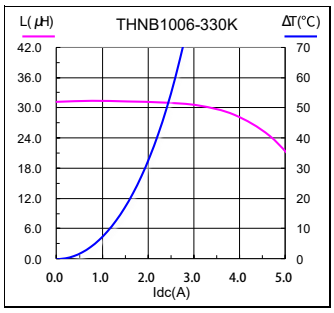


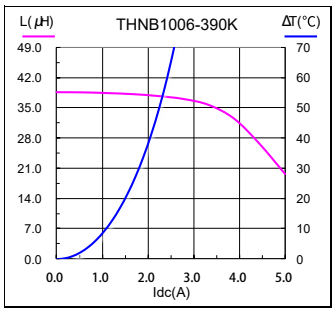












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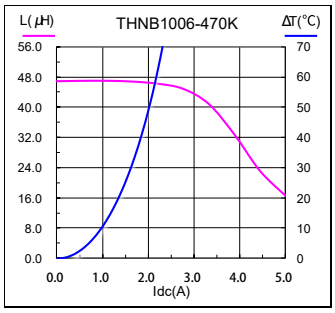

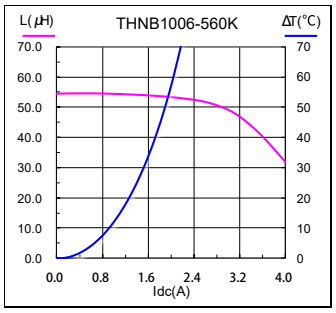

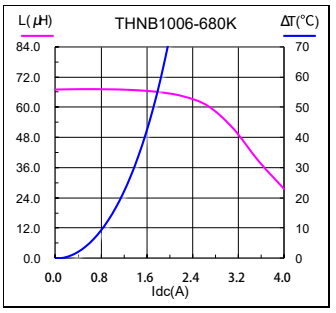

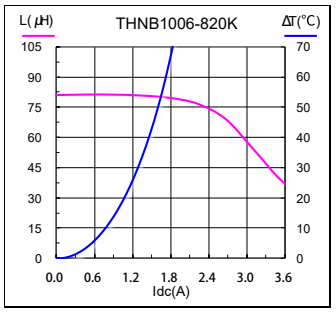

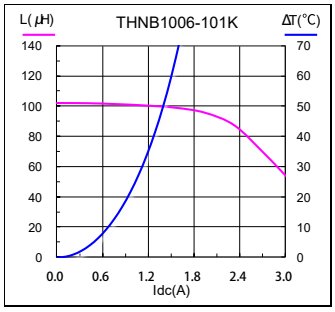

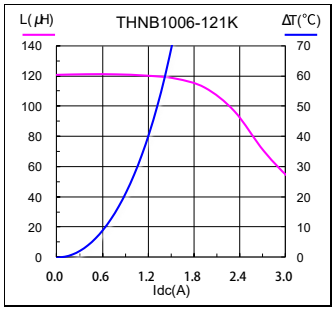

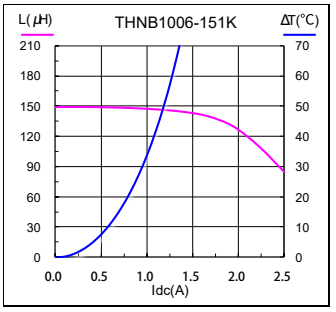

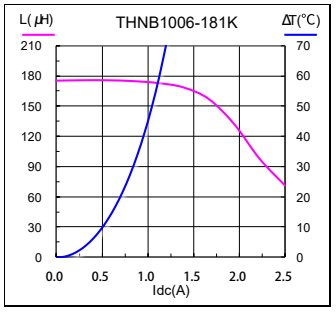

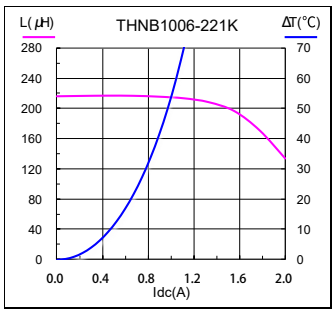

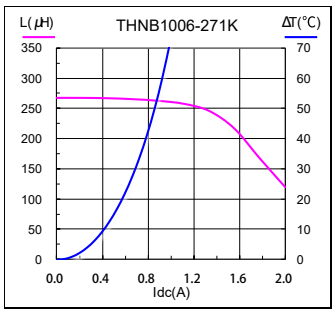

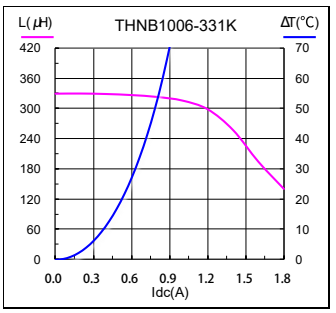

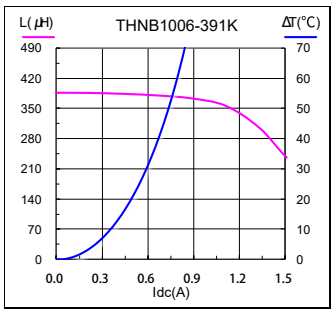

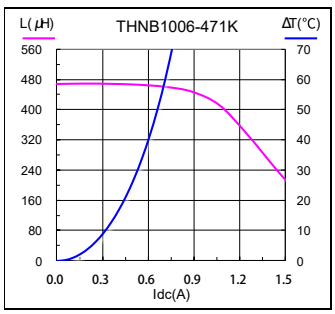

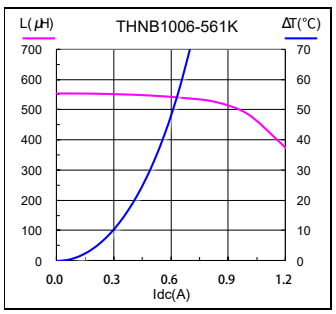

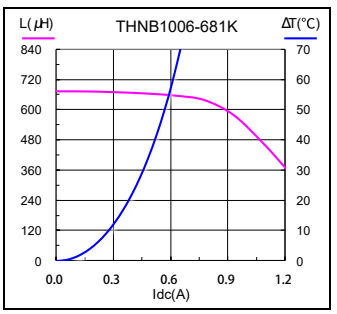

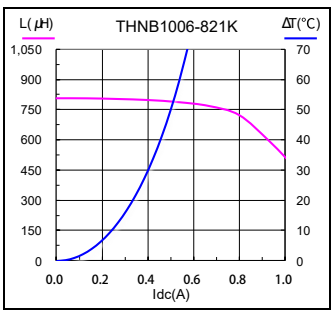

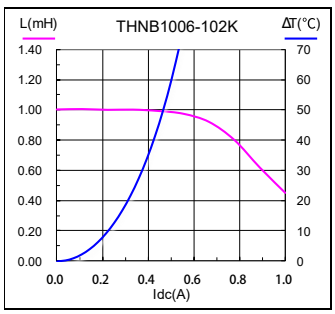

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