PART NUMBER SYSTEM

CPCI 5050 – 101M

- 101M: Inductance
- 5050: Dimensions
- CPCI: Type

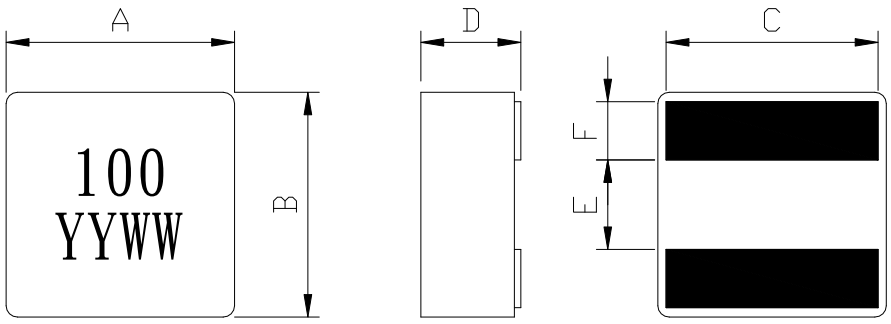
MATERIAL LIST



NO	Items	Materials
1	Core	Alloy powder.
2	Wire	Polyester Wire or equ
3	Solder	100% Pb free solder
4	Ink	Halogen-free ketone

DIMENSIONS

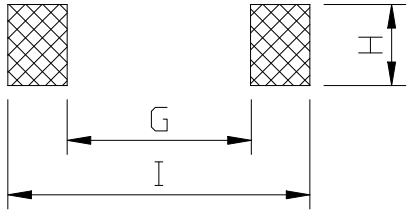
UNIT：mm



A=6.0 ±0.2 B=5.7±0.2 C=4.3±0.3 D=4.8±0.2 E=2.3±0.25 F= 1.1±0.2

RECOMMENDED PATTERNS

UNIT：mm



H=4.7 G= 2.0 I = 4.5

FEATURES

- **Low profile (5.0mm max. height) and 6.00 mm max. square.**
- **Excellent current handling – up to 31 A; Exceptionally low DCR – only 2.15 mOhms**
- **Inductance rage: 5.6 µH – 22 µH**
- **Magnetically shielded and low DC resistance and Suitable for large current .**
- **Excellent temperature stability for inductance and saturation .**

SERIES LIST

No.	PART NUMBER	INDUCTANCE (µH)	Isat (A) Typ.(Max.)	Irms (A)Typ. 20℃/40℃(Rise)	DCR (mΩ) (Typ.)	DCR (mΩ) (Max.)
1	**CPCI5050-5R6M-LF**	5.6±20%	8.60(7.20)	5.30(7.20)	22.0	24.2
2	**CPCI5050-6R8M-LF**	6.8±20%	7.80(6.60)	4.80(6.40)	26.0	28.6
3	**CPCI5050-8R2M-LF**	8.2±20%	7.20(6.10)	4.60(6.10)	29.5	32.5
4	**CPCI5050-100M-LF**	10.0±20%	6.50(5.60)	3.80(5.00)	39.0	43.0
5	**CPCI5050-150M-LF**	15.0±20%	5.50(4.40)	3.00(4.00)	60.0	66.0
6	**CPCI5050-220M-LF**	22.0±20%	5.00(4.10)	2.50(3.40)	90.6	99.65

- I sat : DC current at which the inductance drops 30% (typ) from its value without current.
- I rms : Average current for a 40°C temperature rise above 25°C ambient.
- Test Frequency at 100KHz / 0.1V
- Operating temperature range -40℃ to +125℃ , Electrical specifications at 25℃.
- Reel Qty 1,500pcs