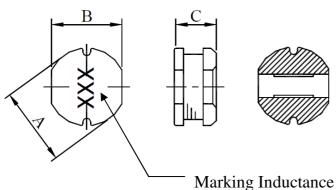
●FEATURE

- 1. High current capacity
- 2. Large terminal surface for good PCB bonding

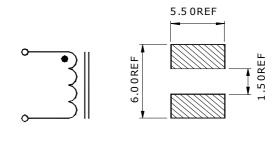
Applications

- 1. DC-DC converter or LCD TV
- 2. Digital Camera, Portable CDR-W and others

Shape and Dimension



Schematics and Land Patterns(mm)



A=5.80±0.30m/m ; B=5.20±0.30m/m ; C=4.50±0.30m/m

Specification

Specification					
Part Number	L(uH)	Test Freq.(Hz)	Marking	DCR(ΩMax)	IDC(A)(Max)
ETP0504B-1R0	1.0	7.96M	1R0	0.025	4.00
ETP0504B-2R2	2.2	7.96M	2R2	0.035	3.50
ETP0504B-3R3	3.3	7.96M	3R3	0.045	3.20
ETP0504B-4R7	4.7	7.96M	4R7	0.054	2.50
ETP0504B-6R8	6.8	7.96M	6R8	0.070	2.00
ETP0504B-8R2	8.2	7.96M	8R2	0.080	1.50
ETP0504B-100	10	2.52M	100	0.100	1.44
ETP0504B-120	12	2.52M	120	0.120	1.40
ETP0504B-150	15	2.52M	150	0.140	1.30
ETP0504B-180	18	2.52M	180	0.150	1.23
ETP0504B-220	22	2.52M	220	0.180	1.11
ETP0504B-270	27	2.52M	270	0.200	0.97
ETP0504B-330	33	2.52M	330	0.230	0.88
ETP0504B-390	39	2.52M	390	0.320	0.80
ETP0504B-470	47	2.52M	470	0.370	0.72
ETP0504B-560	56	2.52M	560	0.420	0.68
ETP0504B-680	68	2.52M	680	0.460	0.61
ETP0504B-820	82	2.52M	820	0.600	0.58



Part Number	L(uH)	Test Freq.(Hz)	Marking	DCR(ΩMax)	IDC(A)(Max)
ETP0504B-101	100	1K	101	0.700	0.52
ETP0504B-121	120	1K	121	0.930	0.48
ETP0504B-151	150	1K	151	1.100	0.40
ETP0504B-181	180	1K	181	1.380	0.38
ETP0504B-221	220	1K	221	1.570	0.35
ETP0504B-271	270	1K	271	1.650	0.32
ETP0504B-331	330	1K	331	1.820	0.28
ETP0504B-471	470	1K	471	2.760	0.23
ETP0504B-561	560	1K	561	3.100	0.20
ETP0504B-681	680	1K	681	4.500	0.19
ETP0504B-821	820	1K	821	5.560	0.16
ETP0504B-102	1000	1K	102	5.740	0.14

Note1. Measurement ambient temperature of L, DCR and IDC : at 25° C

Note2. The rated current indicates the current when the inductance decreases to 90% typical of it's nominal value or D.C. current when the temperature rising $\Delta t=30^{\circ}$ C lower, whichever is lower

Note3. Inductance tolerance: M: ±20%; K: ±10% Note4. Ordering Code: TYPE NAME: ETP0504BB

> Main Inductance: 100 (10uH) Inductance Tolerance: K (±10%)

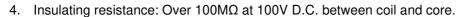
Note5.Packaging: Taping; Quantity: ETP0504B: 1500 Pieces/reel

Note6.LCR Meter:CH3302 or HP4287A

GENERAL CHARACTERISTICS

- 1. Operating temperature range: -40 TO + 105°C (Includes temperature when the coil is heated)
- 2. External appearance: On visual inspection, the coil has no external defects.
- Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Ywithstanding at below conditions.

Terminal should not peel off. (refer to figure at right) 10. 0N 10 sec.



- 5. Dielectric strength: No dielectric breakdown at 100V D.C. for 1 minute between coil and core.
- 6. Temperature characteristics: Inductance coefficient (0~2,000)x10-6/°C (-25~+80°C).
- 7. Humidity characteristics(Moisture Resistance): Inductance deviation within ±5%, after 96 hours in 90~95% relative humidity at 40 ±2°C and 1 hour drying under normal condition.
- 8. Vibration resistance: Inductance deviation within ±5%, after vibration for 1 hour. In each of three orientations at sweep vibration (10~55~10 Hz) with 1.5mm P-P amplitudes.
- 9. Shock resistance: Inductance deviation within ±5%, after being dropped once with 981m/s2 (100G) shock attitude upon a rubber block method shock testing machine, in three different orientations.
- 10. Resistance to Soldering Heat: 260°C, 10 seconds(See attached recommend reflow)
- 11. Storage environment: Storage condition: Temperature Range: $10^{\circ}\text{C} \sim 35^{\circ}\text{C}$ (Generally: $21^{\circ}\text{C} \sim 31^{\circ}\text{C}$) , Humidity Range: $50\% \sim 80\%$ RH (Generally: $65\% \sim 75\%$); Transportation condition: Temperature Range: $-35^{\circ}\text{C} \sim 85^{\circ}\text{C}$, Humidity Range: $50\% \sim 95\%$ RH
- 12. Use components within 6 months. If 6 months or more have elapsed, check solderability before use.
- 13. Reflow profile recommend:

Lead-free heat endurance test

Lead-free the recommended reflow condition

