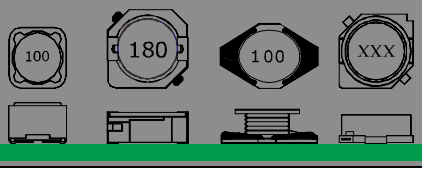
An ISO 9001 Company

SMD POWER INDUCTOR
– ETP1005 SERIES



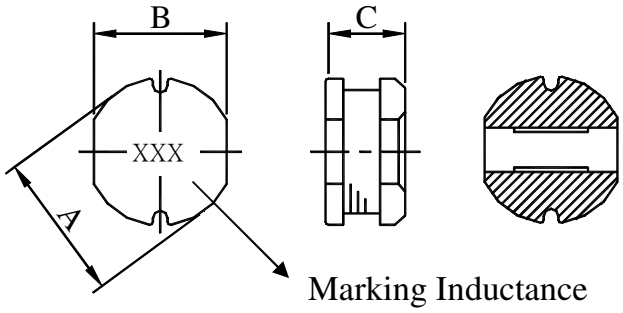
●FEATURE

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

●Applications

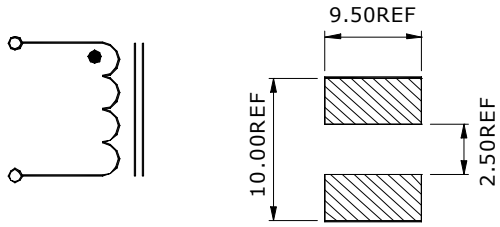
1. DC-DC converter or LCD TV
2. Digital Camera, Portable CDR-W and others

●Shape and Dimension



Marking Inductance

●Schematics and Land Patterns(mm)



A=10.00±0.40m/m ; B=9.00±0.40m/m ; C=5.40±0.40m/m

●Specification

Part Number	L(uH)	Marking	DCR(ΩMax)	IDC(A)(Max)
ETP1005-100□	10	100	0.06	2.60
ETP1005-120□	12	120	0.07	2.45
ETP1005-150□	15	150	0.08	2.27
ETP1005-180□	18	180	0.09	2.15
ETP1005-220□	22	220	0.10	1.95
ETP1005-270□	27	270	0.11	1.76
ETP1005-330□	33	330	0.12	1.50
ETP1005-390□	39	390	0.14	1.37
ETP1005-470□	47	470	0.17	1.28
ETP1005-560□	56	560	0.19	1.17
ETP1005-680□	68	680	0.22	1.11
ETP1005-820□	82	820	0.25	1.00
ETP1005-101□	100	101	0.35	0.97
ETP1005-121□	120	121	0.40	0.89
ETP1005-151□	150	151	0.47	0.78
ETP1005-181□	180	181	0.63	0.72
ETP1005-221□	220	221	0.73	0.66
ETP1005-331□	330	331	1.15	0.52

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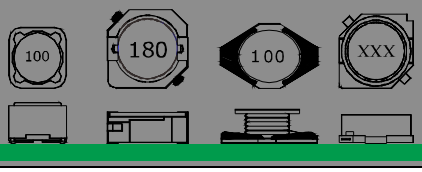


Part Number	L(uH)	Marking	DCR(ΩMax)	IDC(A)(Max)
ETP1005-471□	470	471	1.48	0.42
ETP1005-681□	680	681	2.25	0.28
ETP1005-821□	820	821	2.55	0.24

Note1. Measurement frequency of Inductance value : 10uH~82uHat 2.52MHz ; 100uH~820uH at 1KHz

Note2. Measurement ambient temperature of L, DCR and IDC : at 25℃

Note3. IDC : △L/L≦10%

(This indicates the value of current when the inductances is 10% lower than its initial value at D.C. superimposition or D.C. current when at Δt=40℃,which is lower.(Ta=20℃))

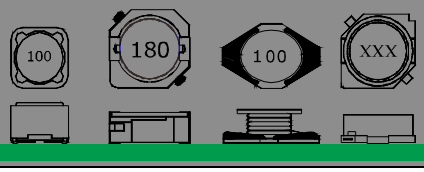
Note4. Inductance tolerance: M: ±20% ; K: ±10%

Note5. Ordering Code: Type name: ETP1005

Inductance value: 100(10uH)

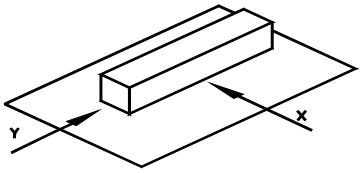
Tolerance: M: ±20%

Note6. Packaging: Taping ; Quantity: 500pcs/reel



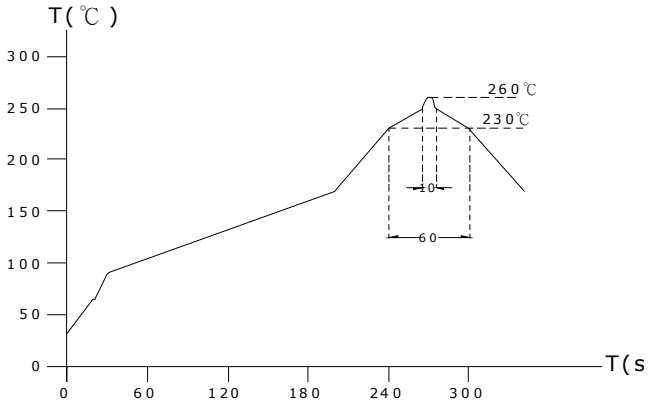
GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 105℃(Includes temperature when the coil is heated)
2. External appearance: On visual inspection, the coil has no external defects.
3. Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Y withstanding at below conditions.
   Terminal should not peel off. (refer to figure at right) 10. 0N 10 sec.



4. Insulating resistance: Over 100MΩ at 100V D.C. between coil and core.
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/℃(-25~+80℃).
7. Humidity characteristics(Moisture Resistance): Inductance deviation within ±5%, after 96 hours in 90~95% relative humidity at 40 ±2℃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℃, 10 seconds(See attached recommend reflow)
11. Storage environment: Storage condition: Temperature Range: 10℃ ~ 35℃ (Generally: 21℃ ~ 31℃) , Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%) ; Transportation condition: Temperature Range: -35℃ ~ 85℃ , Humidity Range: 50% ~ 95% RH
12. Use components within 12 months. If 12 months or more have elapsed, check solderability before use.
13. Reflow profile recommend:

Lead-free heat endurance test



Lead-free the recommended reflow condition