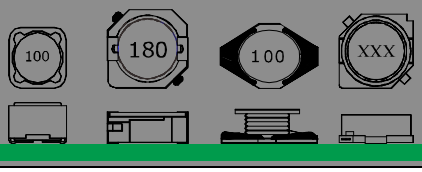
An ISO 9001 Company

SMD POWER INDUCTOR
– ETP0302B SERIES



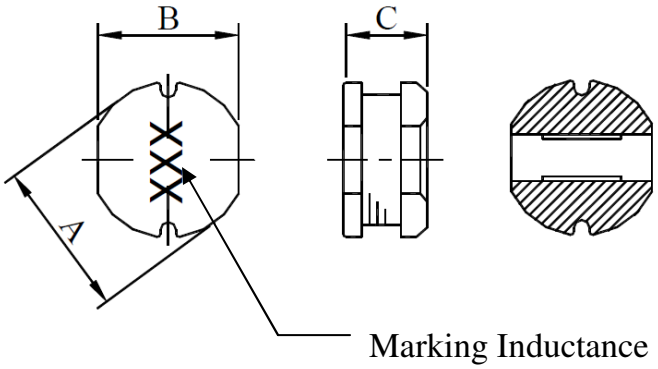
●FEATURE

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

●Applications

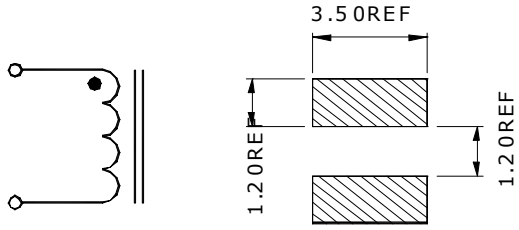
1. DC-DC converter or LCD TV
2. Digital Camera, Portable CDR-W, Camcorder and others

●Shape and Dimension



A=3.50±0.30m/m ; B=3.00±0.30m/m ; C=2.10±0.30m/m

●Schematics and Land Patterns(mm)



●Specification

Part Number	L(uH)	Marking	DCR(Ω Max)	IDC(A)(Max)
ETP0302B-1R0□	1.0	1R0	0.054	2.20
ETP0302B-1R5□	1.5	1R5	0.078	2.08
ETP0302B-1R8□	1.8	1R8	0.110	1.80
ETP0302B-2R2□	2.2	2R2	0.059	2.35
ETP0302B-3R3□	3.3	3R3	0.131	1.50
ETP0302B-4R7□	4.7	4R7	0.158	1.30
ETP0302B-5R6□	5.6	5R6	0.165	1.20
ETP0302B-6R8□	6.8	6R8	0.188	1.10
ETP0302B-100□	10	100	0.341	1.00
ETP0302B-150□	15	150	0.460	0.90
ETP0302B-180□	18	180	0.500	0.80
ETP0302B-220□	22	220	0.685	0.75
ETP0302B-270□	27	270	0.912	0.70
ETP0302B-330□	33	330	0.951	0.60
ETP0302B-470□	47	470	1.582	0.45
ETP0302B-680□	68	680	2.033	0.30
ETP0302B-820□	82	820	2.319	0.20

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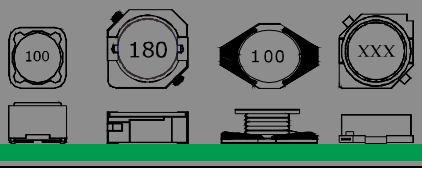


Part Number	L(uH)	Marking	DCR(Ω Max)	IDC(A)(Max)
ETP0302B-101□	100	101	2.558	0.10
ETP0302B-151□	150	151	4.303	0.08
ETP0302B-181□	180	181	5.350	0.075
ETP0302B-221□	220	221	6.669	0.07
ETP0302B-331□	330	331	8.684	0.06
ETP0302B-471□	470	471	13.09	0.06

Note1. Measurement frequency of Inductance value : at 100KHz, 0.25V

Note2. The rated current indicates the current when the inductance decreases to 90% over of it's nominal value or D.C. current when the temperature rising Δt=30℃ lower, whichever is lower

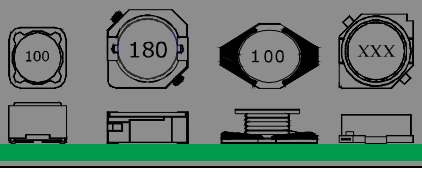
Note3. Inductance tolerance: M: ±20% ; K: ±10%

Note4. Ordering Code: TYPE NAME: ETP0302B

Main Inductance: 100 (10uH)

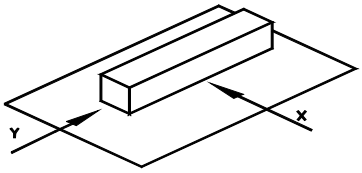
Inductance Tolerance : K (±10%)

Note5.Packaging: Taping ; Quantity: ETP0302B: 2000 Pieces/reel



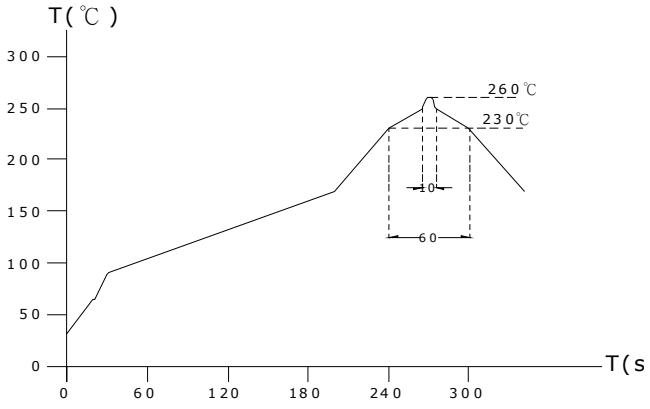
GENERAL CHARACTERISTICS

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