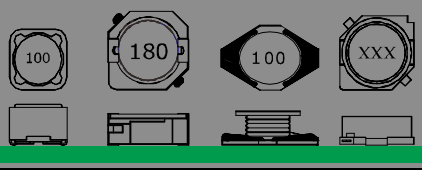
An ISO 9001 Company

SMD POWER INDUCTOR
– ETPRH1204 SERIES



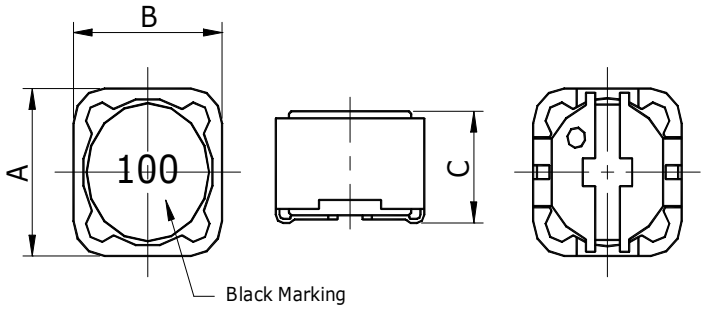
●FEATURE

1. Low core loss for high frequency power application
2. Large terminal surface

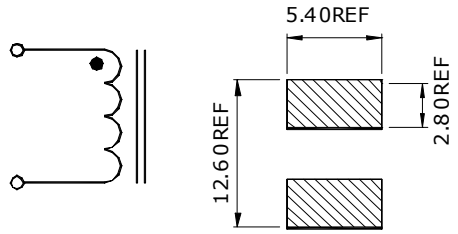
●Applications

1. Portable communication equipment, notebook computer
2. Hard Disk drives, and other electronic equipment

●Shape and Dimension



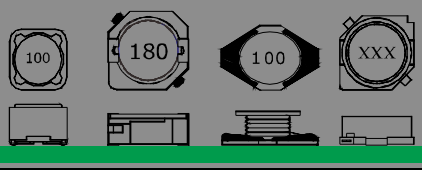
●Schematics and Land Patterns(mm)



A=12.0±0.30m/m ; B=12.0±0.30m/m ; C=5.00m/m MAX

●Specification

Part Number	L(uH)	DCR(Ω Max)	IDC(A)(Max)
ETPRH1204-3R9N	3.9±30%	0.015	6.50
ETPRH1204-4R7N	4.7±30%	0.018	5.70
ETPRH1204-6R8N	6.8±30%	0.023	4.90
ETPRH1204-100M	10±20%	0.028	4.50
ETPRH1204-120M	12±20%	0.038	4.00
ETPRH1204-150M	15±20%	0.050	3.20
ETPRH1204-180M	18±20%	0.057	3.10
ETPRH1204-220M	22±20%	0.066	2.90
ETPRH1204-270M	27±20%	0.080	2.80
ETPRH1204-330M	33±20%	0.097	2.70
ETPRH1204-390M	39±20%	0.132	2.10
ETPRH1204-470M	47±20%	0.150	1.90
ETPRH1204-560M	56±20%	0.190	1.80
ETPRH1204-680M	68±20%	0.220	1.50
ETPRH1204-101M	100±20%	0.308	1.20
ETPRH1204-121M	120±20%	0.380	1.10
ETPRH1204-151M	150±20%	0.530	0.95
ETPRH1204-221M	220±20%	0.700	0.80



Note1. Measurement frequency of Inductance value : at 1KHz, 0.25V

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

Note3. The rated current indicates the current when the inductance decreases to 75% over of it's nominal value or D.C. current when the temperature rising Δt=30℃ lower, whichever is lower

Note4. Inductance tolerance: M: ±20%, N: ±30%

Note5. Test equipment: CH3302 / CH1320 / CH16502

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

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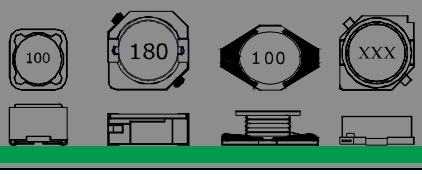
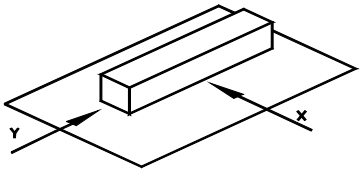


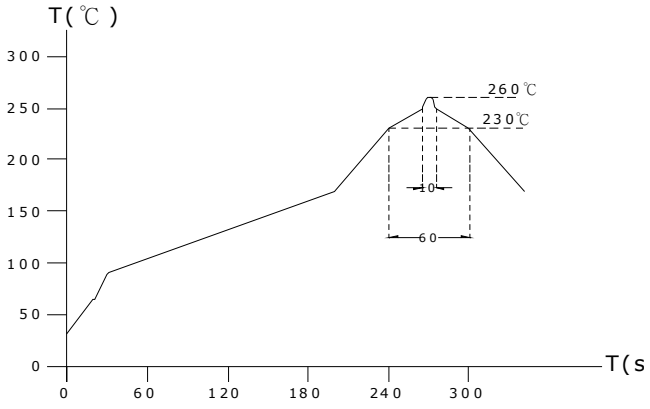
GENERAL CHARACTERISTICS

1. Operating temperature range: -40 TO + 125℃(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) 5. 0N 60 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℃ degree Celsius), inductance deviation within±5.0%, after 96 hours.
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 condition: Temperature Range: 0℃ ~ 35℃；-40℃ ~ 105℃ (after PCB)，Humidity Range: 50% ~ 70% 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