

TPRH10D40 TYPE

●FEATURE

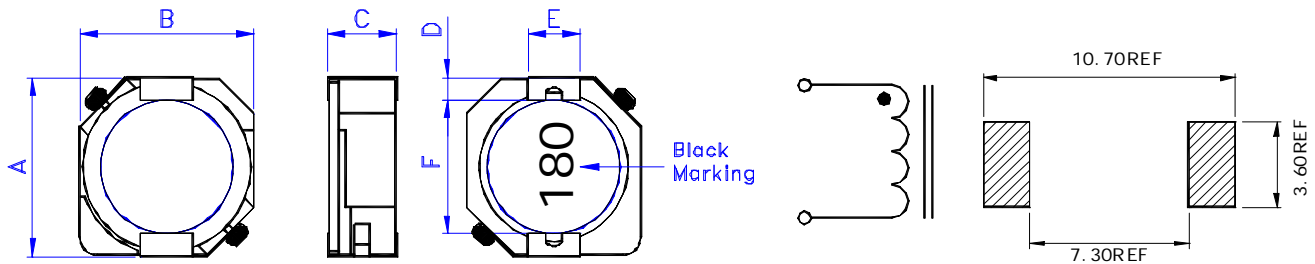
1. High current capacity ,Low DCR and magnetic shielded for low raditation

●Applications

1. Portable telephone, Notebook, and other electronic equipment

●Shape and Dimension

●Schematics and Land Patterns(mm)



A= 10.10±0.30 m/m ; B=10.0±0.30m/m ; C=3.80±0.20m/m MAX ; D=1.20m/m REF. ;
E=3.00m/m REF ; F=8.00m/m MAX

●Specification

Part Number	L (uH)	Marking	DCR (Ω Max)	Isat (A)	Irms (A)
TPRH10D40-1R5□	1.5	1R5	8.1m	10.0	6.50
TPRH10D40-2R5□	2.5	2R5	10.5m	7.50	6.10
TPRH10D40-3R3□	3.3	3R3	13m	6.10	5.60
TPRH10D40-3R8□	3.8	3R8	13m	6.00	5.50
TPRH10D40-5R2□	5.2	5R2	22m	5.50	5.40
TPRH10D40-6R8□	6.8	6R8	27m	4.80	4.50
TPRH10D40-7R0□	7.0	7R0	27m	4.80	4.50
TPRH10D40-8R2□	8.2	8R2	32m	4.60	3.80
TPRH10D40-100□	10	100	35m	4.40	3.80
TPRH10D40-150□	15	150	50m	3.60	3.10
TPRH10D40-220□	22	220	73m	2.90	2.50
TPRH10D40-330□	33	330	93m	2.30	2.20
TPRH10D40-470□	47	470	0.128	2.10	1.90
TPRH10D40-680□	68	680	0.213	1.50	1.42
TPRH10D40-101□	100	101	0.304	1.35	1.25
TPRH10D40-151□	150	151	0.506	1.15	0.85
TPRH10D40-221□	220	221	0.756	0.92	0.70
TPRH10D40-331□	330	331	1.090	0.70	0.52

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

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

Note3. Isat: DC current at which the inductance drops 35%(max) from its value without current

Note4. Irms: Average current for 40°C temperature rise from 25°C ambient

Note5. Inductance tolerance: N: $\pm 30\%$; M: $\pm 20\%$

Note6. Ordering Code: TYPE NAME: TPRH10D40

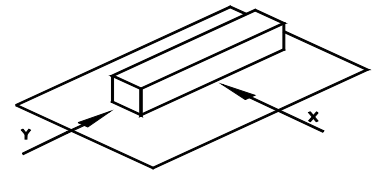
Main Inductance: 100 (10uH)

Tolerance : M ($\pm 20\%$)

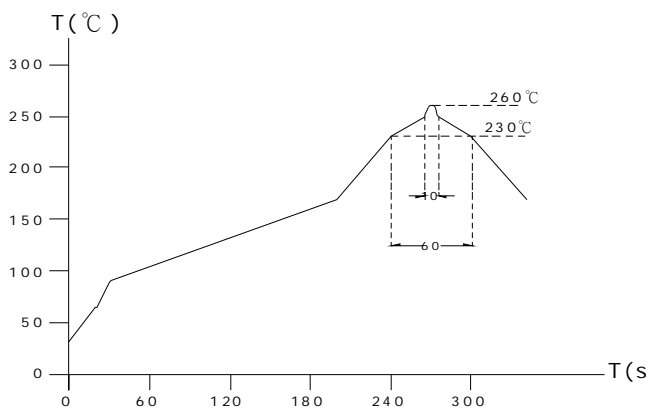
Note7. Packaging: Taping ; Quantity: TPRH10D40:1000 Pieces/reel

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.
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 $(0\sim 2,000)\times 10^{-6}/^{\circ}\text{C}$ (-25~+80°C degree Celsius), inductance deviation within $\pm 5.0\%$, after 96 hours.
7. Humidity characteristics(Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in 90~95% relative humidity at $40 \pm 2^{\circ}\text{C}$ and 1 hour drying under normal condition.
8. Vibration resistance: Inductance deviation within $\pm 5\%$, 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 $\pm 5\%$, 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 condition: Temperature Range: 0°C ~ 35°C ; -40°C ~ 105°C (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

