## FENG-JUI TECHNOLOGY CO., LTD

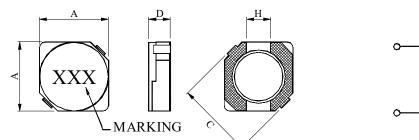
## SMD POWER INDUCTOR-RoHS

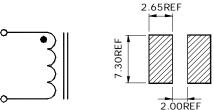
# TPRH 6D18 TYPE

#### ●<u>FEATURE</u>

- Various high power inductors are superior to be high saturation for surface mounting
- <u>Applications</u>
- 1. DC-DC converter of portable equipment
- 2. Digital Camera, Notebook, Camcorder and others
- Shape and Dimension

### Schematics and Land Patterns(mm)





### A=6.70±0.30m/m ; D=2.00m/m MAX; C=9.50m/m TYP ; H=2.00m/m REF.

#### MARKING= Inductance value

• <u>Specification</u>				
Part Number	L(uH)	Marking	DCR(ΩMax)	IDC(A)(Max)
TPRH6D18-2R2	2.2	2R2	0.045	3.50
TPRH6D18-3R3	3.3	3R3	0.050	3.00
TPRH6D18-4R7	4.7	4R7	0.076	2.80
TPRH6D18-6R8	6.8	6R8	0.087	2.20
TPRH6D18-100	10	100	0.150	1.80
TPRH6D18-120	12	120	0.200	1.70
TPRH6D18-150	15	150	0.260	1.50
TPRH6D18-220	22	220	0.396	1.30
TPRH6D18-330	33	330	0.540	1.05
TPRH6D18-470	47	470	0.672	0.95

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

Note2. Measurement ambient temperature of L, DCR and IDC : at  $25^\circ\!\mathbb{C}$ 

Note3. The rated current indicates the current when the inductance decreases to 65% over of it's nominal value or D.C. current when the temperature rising Δt=40°C lower, whichever is lower

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

Note5. Ordering Code: TYPE NAME: TPRH6D18

Main Inductance: 100 (10uH)

Tolerance : 
(see note 4)

Note6.Packaging: Taping ; Quantity: 1500 Pieces/reel

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# **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  $100M\Omega$  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.
- Temperature characteristics: Inductance coefficient (0~2,000)x10-6/℃ (-25~+80℃ degree Celsius), inductance deviation within±5.0%, after 96 hours.
- 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.
- 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 condition: Temperature Range:  $0^{\circ}$  ~  $35^{\circ}$  ;  $-40^{\circ}$  ~  $105^{\circ}$  (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

