PIC07030 TYPE

FEATURE

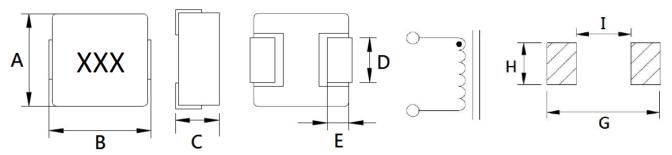
- 1. Shielded constrution
- 2. Alloy metal material used, Low DCR ,Low Buzz Noise

Applications

1. Notebook, server application, High current power supplier

Shape and Dimension

Schematics and Land Patterns(mm)



 $A = 6.80 \text{m/m Max} \; ; \; B = 7.30 \text{m/m Max} \; ; \; C = 3.00 \text{m/m Max.} \; ; \; D = 3.00 \pm 0.3 \text{m/m.} \; ; \; E = 1.60 \text{m/m Ref.} \; ; \; E = 1.60 \text{m/m Ref.$

G=8.40m/m; H=3.50m/m; I=3.70m/m

Specification

P/N	L	RDC	RDC	Isat	Irms
	(µH)	(mΩ) Typical	(mΩ)Max	(A)	(A)
PIC07030-R47M	0.47±20%	3.5	4.1	20.0	18.0
PIC07030-R68M	0.68±20%	4.8	5.3	17.0	16.0
PIC07030-1R0M	1.0±20%	6.7	7.4	15.0	12.0
PIC07030-1R5M	1.5±20%	10.6	12.1	14.0	12.0
PIC07030-2R2M	2.2±20%	13.5	15.0	10.0	9.5
PIC07030-3R3M	3.3±20%	18.0	22.0	9.5	8.5
PIC07030-4R7M	4.7±20%	28.0	33.0	6.5	6.0
PIC07030-6R8M	6.8±20%	42.5	48.0	6.0	5.5
PIC07030-100M	10±20%	62.0	67.0	5.5	4.8
PIC07030-220M	22±20%	180	200	3.0	2.3

Note1. Measurement frequency of Inductance value: at 100KHz, 1V

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

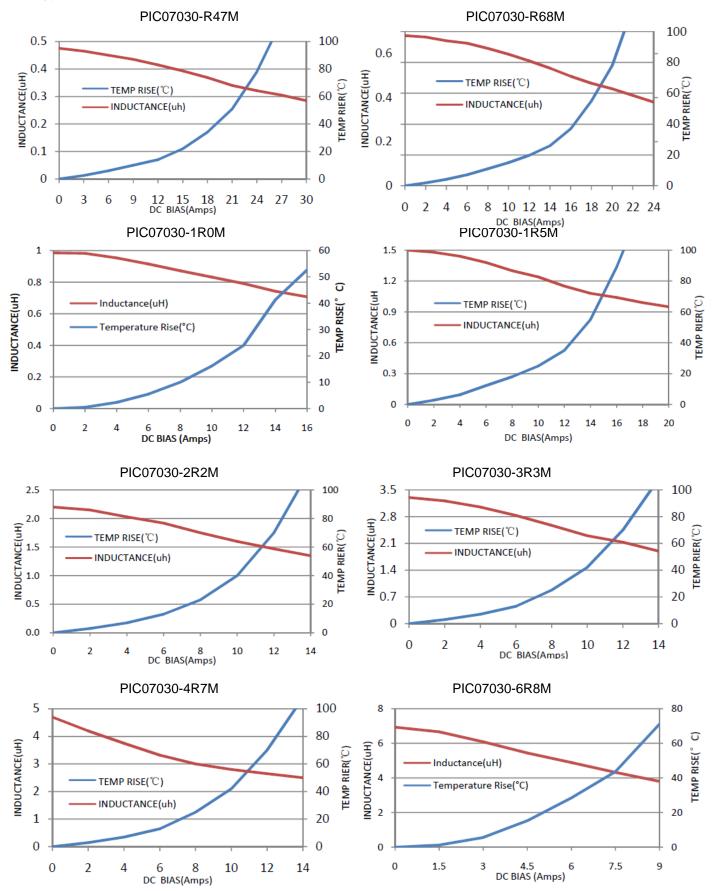
Note3. Isat: DC current at which the inductance drops 30%(typ) from its value without current

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

Note5. Inductance tolerance: M: ±20%

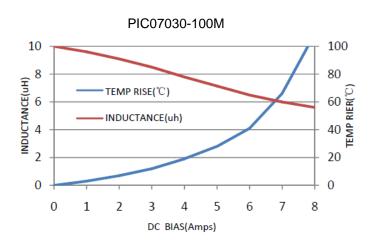
Note6. Packaging: Taping; Quantity: 1500 Piece/reel

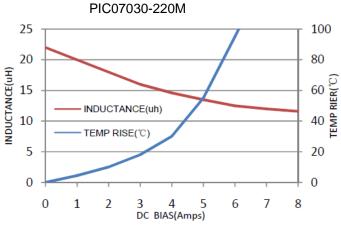
■Typical Electrical Curve: Inductance VS Isat , Irms VS TEMP.



FENG-JUI TECHNOLOGY CO., LTD

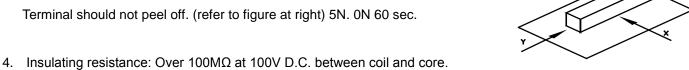
HIGH CURRENT INDUCTOR-RoHS





GENERAL CHARACTERISTICS

- 1. Operating temperature range: -55 TO +125°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.Ywithstanding at below conditions.



- 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/°C (-25~+80°C), 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°C 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°C, 10 seconds(See attached recommend reflow)
- 11. Storage environment: Storage condition: Temperature Range: 10°C ~ 35°C (Generally: 21°C ~ 31°C) , Humidity Range: 50% ~ 80% RH (Generally: 65% ~ 75%); Transportation condition: Temperature Range: -35°C ~ 85°C , 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

