PIT07012 TYPE

FEATURE

- 1. Shielded constrution
- 2. Frequency range up to 5MHz, Low DCR(uH)
- 3. Low Buzz Noise

Applications

1. Notebook, server application, High current power supplier

Shape and Dimension

Schematics and Land Patterns(mm)

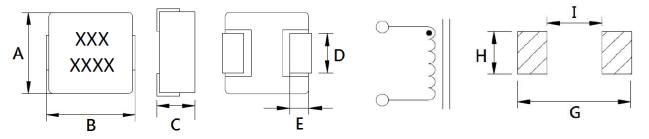


Figure 1

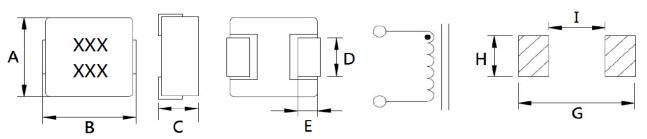


Figure 2

A=6.90m/m Max ; B=7.30m/m Max ; C=1.20m/m Max. ; D=2.50 \pm 0.3m/m ; E=1.80m/m Ref. ; G=7.70m/m Ref. ; H=3.00m/m Ref. ; I=2.50m/m Ref.

Specification

P/N	L	RDC	Isat	Irms	FIG
	(µH)	(mΩ)Max	(A)	(A)	
PIT07012-R68M	0.68±20%	19	8.0	7.0	1
PIT07012-1R0M	1.0±20%	28	7.0	6.0	1
PIT07012-1R5M	1.5±20%	40.8	6.0	4.5	1
PIT07012-2R2M	2.2±20%	61.0	5.0	4.0	1
PIT07012-3R3M	3.3±20%	103	3.6	3.0	1
PIT07012-4R7M	4.7±20%	150	3.2	2.5	1
PIT07012-6R8M	6.8±20%	217	2.4	2.1	2
PIT07012-100M	10±20%	290	2.2	2.0	2

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HIGH CURRENT INDUCTOR-RoHS

Note1. Measurement frequency of Inductance value: at 100KHz

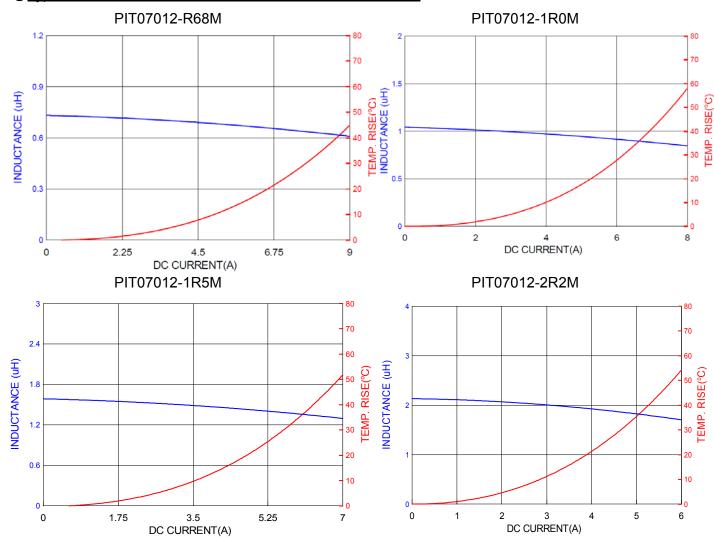
Note2. Measurement ambient temperature of L, DCR and IDC : at 25° C

Note3. Isat: DC current at which the inductance drops 20%(typ) from its value without current

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

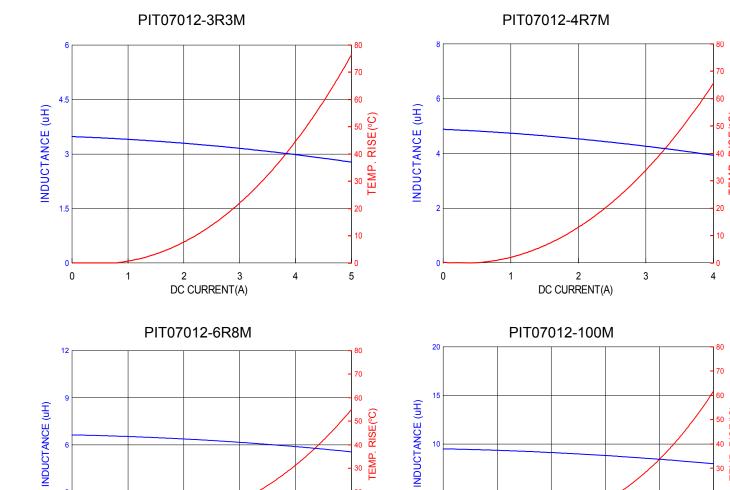
Note5. Inductance tolerance: M: ±20% Note6. Packing: Reel; Quantity: 3000 Piece

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



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2.4

3

0.5

DC CURRENT(A)

0

0.6

1.2

DC CURRENT(A)

1.8

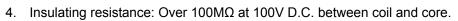
10

2.5

GENERAL CHARACTERISTICS

- 1. Operating temperature range: -40TO + 125°C (Includes temperature when the coil is heated)
- 2. External appearance: On visual inspection, the coil has no external defects.
- Terminal strength: After soldering. Between copper plate and terminals of coil. Push in two directions of X.Ywithstanding at below conditions.

Terminal should not peel off. (refer to figure at right) 5. 0N 60 sec.



- 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/°C (-25~+80°C).
- 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: $10^{\circ}\text{C} \sim 35^{\circ}\text{C}$ (Generally: $21^{\circ}\text{C} \sim 31^{\circ}\text{C}$) , Humidity Range: $50\% \sim 80\%$ RH (Generally: $65\% \sim 75\%$); Transportation condition: Temperature Range: $-35^{\circ}\text{C} \sim 85^{\circ}\text{C}$, Humidity Range: $50\% \sim 95\%$ RH
- 12. Use components within 6 months. If 6 months or more have elapsed, check solderability before use.
- 13. Reflow profile recommend:

Lead-free heat endurance test

Lead-free the recommended reflow condition

