3 Pin Radial Inductors–RIT Series

FEATURES

- 3 Pin radial inductor
- Contain high-frequency ferrite.
- Comparatively large rate current.
- Large inductance with low DCR.

APPLICATIONS

TVs and Audio equipment and Switching power supplies.Buzzers and Alarm systems, Notebook computer, DC - DC converters and air-conditions, etc

PRODUCT IDENTIFICATION

01	02		03	04
RIT	0810	—	100/103K	M

01

TyPe	
RIT	Radial Power Inductor

02

External Dimensions (ΦAxB)(mm)	
0507	10.0x 6.5
0608	11.0x 7.5
0810	13.5x 9.5
0912	15.0x 10.5
1012	16.0x 11.5
1016	20.0x 12

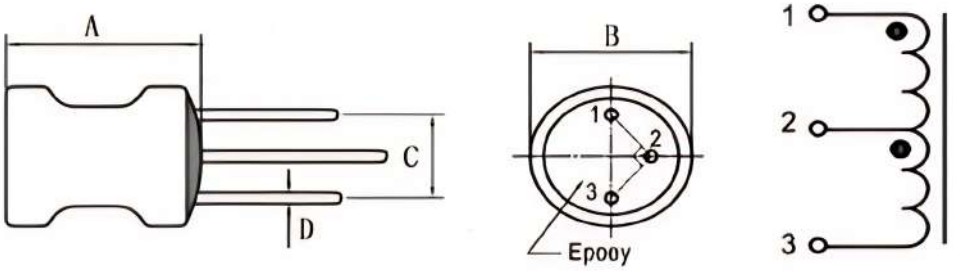
03

Nominal Inductance	
Example	Nominal value
100/103	L1-L2:10uH,L3-L2:10mH
102/104	L1-L2:1mH,L3-L2:100mH

04

Tolerance	
K	±10%
M	±20%
N	±30%

SHAPE AND DIMENSIONS



Part Number	Dimensions(mm)			
	ΦA(MAX)	B(MAX)	C(MAX)	D
RIT0507	10.0	6.5	2.5±0.5	0.60±0.1
RIT0608	11.0	7.5	3.0±0.5	0.65±0.1
RTI0810	13.5	9.5	4.0±0.5	0.65±0.1
RIT0912	15.0	10.5	5.0±0.5	0.65±0.1
RIT1012	16.0	11.5	6.0±0.5	0.80±0.1
RIT1016	20.0	12.0	6.0±0.5	0.80±0.1

Note：The products can be customized according to customer requirement

SPECIFICATIONS

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Rated Current Max（mA)
RIT0507	1uh-80mH	K、M	1/0.25	0.001-100	1-4000
RIT0608	1uh-100mH	K、M	1/0.25	0.001-200	1-5000
RIT0810	1uh-200mH	K、M	1/0.25	0.001-400	1-8000
RIT0912	1uh-200mH	K、M	1/0.25	0.001-400	1-9000
RIT1012	1uh-300mH	K、M	1/0.25	0.001-400	1-9000
RIT1016	1uh-300mH	K、M	1/0.25	0.001-400	1-9000

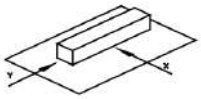
Note：When ordering,please specify tolerance code.Tolerance: K: ±10%、M: ±20%;
1.Operating temperature range -40 -125**℃**
2.Isat for Inductance drop 30% from its value without current
3.The products can be customized according to customer requiremen.

DETAIL ELECTRICAL 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 (0~2,000)x10-6/°C(-25~+80°C 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°Cand 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.

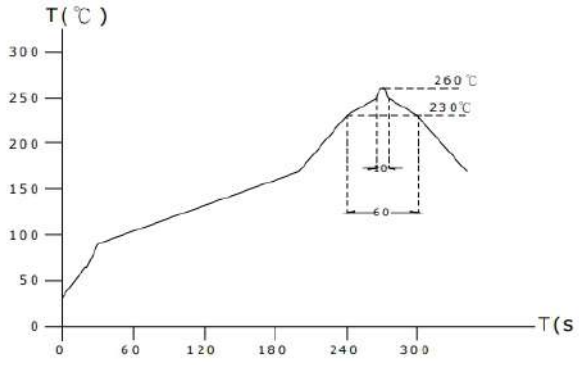
10. Resistance to Soldering Heat: 260°C, 10 seconds(See attached recommend reflow) .

11. Storage 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