





FEATURES

- Entrie winding core is encapsulated in heat shriked UL tube or magnetically shielded.
- To provide mechanical and environmental protection.
- With a special base for uniform lead wire.
- Low impedance with high rate current.

APPLICATIONS

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

PRODUCT IDENTIFICATION



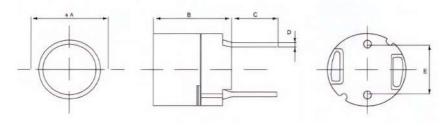
01		ТуРе
	RID	Radial Power Inductor

External Dimensions (ΦAxB)(mm				
0606	6.5x 6.5			
0807	8.3x 7.5			

Noi	minal	Inductance		
Examp	le	Nominal value		
4R7		4.7uH		
470		47uH		
471		470uH		

04		Tolerance
	К	±10%
	М	±20%
	N	±30%

SHAPE AND DIMENSIONS



Part Number	Dimensions(mm)				
Part Number	ΦA(MAX)	B(MAX)	C(MAX)	D	Е
RID0606	6.5	6.5	4.0	0.50±0.1	4.0±0.5
RID0807	8.3	7.5	5.5	0.65±0.1	5.0±0.5

Note: The products can be customized according to customer requirement



SPECIFICATIONS

• RID0606 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Rated Current Max (A)
RID0606-1R2	1.2		1/0.25	0.042	2 .40
RID0606-1R8	1.8		1/0.25	0.045	2.23
RID0606-2R2	2.2		1/0.25	0.047	2.10
RID0606-2R7	2.7		1/0.25	0.050	2.00
RID0606-3R3	3.3		1/0.25	0.062	1.80
RID0606-4R7	4.7		1/0.25	0.071	1.47
RID0606-6R8	6.8		1/0.25	0.092	1.18
RID0606-8R2	8.2		1/0.25	0.105	1.12
RID0606-100	10		1/0.25	0.118	1.00
RID0606-120	12		1/0.25	0.130	0.96
RID0606-150	15		1/0.25	0.180	0.87
RID0606-180	18		1/0.25	0. 210	0.78
RID0606-220	22	K、M	1/0.25	0.260	0.72
RID0606-330	33		1/0.25	0.330	0.60
RID0606-390	39		1/0.25	0.360	0.55
RID0606-470	47		1/0.25	0.390	0.50
RID0606-560	56		1/0.25	0.540	0.45
RID0606-680	68		1/0.25	0.620	0.41
RID0606-820	82		1/0.25	0.720	0.37
RID0606-100	100		1/0.25	0.880	0.34
RID0606-121	120		1/0.25	0.990	0.30
RID0606-151	150		1/0.25	1.520	0.27
RID0606-181	180		1/0.25	1.700	0.25
RID0606-221	220		1/0.25	1.850	0.23
RID0606-271	270		1/0.25	2 .850	0.21

Note: When ordering, please specify tolerance code. Tolerance: K: $\pm 10\%$, M: $\pm 20\%$;



^{1.} Operating temperature range -40 -125° C 2. Isat for Inductance drop 30% from its value without current

^{3.} The products can be customized according to customer requiremen.

• RID0807 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (KHz/V)	DCR Max(Ω)	Rated Current Max (A)
RID0807-1R2	1.2		1/0.25	0.018	4.10
RID0807-1R8	1.8		1/0.25	0.023	3.75
RID0807-2R2	2.2		1/0.25	0.025	3.45
RID0807-2R7	2.7		1/0.25	0.026	3.55
RID0807-3R3	3.3		1/0.25	0.030	3.19
RID0807-4R7	4.7		1/0.25	0.035	2.92
RID0807-6R8	6.8		1/0.25	0.043	2.65
RID0807-8R2	8.2		1/0.25	0.047	2.55
RID0807-100	10		1/0.25	0.050	2.40
RID0807-120	12		1/0.25	0.055	2.25
RID0807-150	15		1/0.25	0.062	1.95
RID0807-180	18		1/0.25	0.072	1.78
RID0807-220	22	K、M	1/0.25	0.080	1.60
RID0807-330	33		1/0.25	0.140	1.30
RID0807-390	39		1/0.25	0.150	1.20
RID0807-470	47		1/0.25	0.170	1.10
RID0807-560	56		1/0.25	0.190	0.99
RID0807-680	68		1/0.25	0.210	0.89
RID0807-820	82		1/0.25	0.270	0.81
RID0807-100	100		1/0.25	0.320	0.74
RID0807-121	120		1/0.25	0.360	0.67
RID0807-151	150		1/0.25	0.510	0.60
RID0807-181	180		1/0.25	0.570	0.55
RID0807-221	220		1/0.25	0.760	0.50
RID0807-271	270		1/0.25	0.860	0 .45

Note: When ordering, please specify tolerance code. Tolerance: K: $\pm 10\%$, M: $\pm 20\%$; 1. Operating temperature range -40 -125°C



^{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 $100M\Omega$ 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.
- 6. Temperature characteristics: Inductance coefficient $(0~2,000)x10-6/^{\circ}C(-25~+80^{\circ}C)$ degree Celsius), inductance deviation within ±5.0%, after 96 hours.
- 7. Humidity characteristics (Moisture Resistance): Inductance deviation within $\pm 5\%$, after 96 hours in $90\sim95\%$ relative humidity at $40\pm2\%$ Cand 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 ($10\sim55\sim10$ 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.

T(°C)

13. Reflow profile recommend:

Lead-free heat endurance test

Lead-free the recommended reflow condition

