





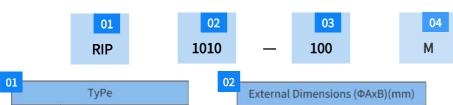
FEATURES

- Ideal as a choke coil for noise filtering
- Samll size radial lead type
- With a special base for uniform lead wire
- High Q 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

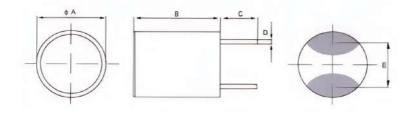


	RIP	Radial Power Inductor		
04	Tolerance			
	K	±10%		
	М	±20%		
	N	±30%		

4	External Dimensions (ΦΑxΒ)(mm)			
	1010	11.0x 9.5		
	1012	11.0x 12.5		
ľ	1014	11.0x 14.5		

Nomina	l Inductance
Example	Nominal value
100	10uH
330	33uH
331	330uH

SHAPE AND DIMENSIONS



Part Number	Dimensions(mm)					
	ФА(МАХ)	B(MAX)	C(MAX)	D	Е	
RIP1010	11.0	9.5	5.5	0.70±0.1	5.0±0.5	
RIP1012	11.0	12.5	5.5	0.70±0.1	5.0±0.5	
RIP1014	11.0	14.5	5.5	0.70±0.1	5.0±0.5	

Note: The products can be customized according to customer requirement



SPECIFICATIONS

• RIP1010TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (MHz/V)	DCR Max(Ω)	Rated Current Max (mA)
RIP1010-100	10		100/0.25	0.018	1000
RIP1010-150	15		100/0.25	0.020	810
RIP1010-180	18		100/0.25	0.022	765
RIP1010-220	22		100/0.25	0.025	630
RIP1010-270	27		100/0.25	0.027	495
RIP1010-330	33		100/0.25	0.034	470
RIP1010-390	39		100/0.25	0.036	390
RIP1010-470	47		100/0.25	0.047	370
RIP1010-560	56	K、M	100/0.25	0.049	325
RIP1010-680	68		100/0.25	0.056	290
RIP1010-820	82		100/0.25	0.061	270
RIP1010-101	100		100/0.25	0.069	230
RIP1010-121	120		100/0.25	0.076	210
RIP1010-151	150		100/0.25	0.095	200
RIP1010-181	180		100/0.25	0.105	175
RIP1010-221	220		100/0.25	0.115	160
RIP1010-471	470		100/0.25	0.250	104

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

• RIP1012TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (MHz/V)	DCR Max(Ω)	Rated Current Max (mA)
RIP1012-100	10	K. M	100/0.25	0.027	3300
RIP1012-120	12		100/0.25	0.029	3000
RIP1012-180	18		100/0.25	0.037	2500
RIP1012-220	22		100/0.25	0.045	2250
RIP1012-270	27		100/0.25	0.050	2000



^{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.

Part Number	Inductance (uH)	Tolerance	Test condition (MHz/V)	DCR Max(Ω)	Rated Current Max(mA)
RIP1012-330	33		100/0.25	0.068	1870
RIP1012-390	39		100/0.25	0.076	1680
RIP1012-470	47		100/0.25	0.085	1500
RIP1012-560	56		100/0.25	0.094	1440
RIP1012-680	68		100/0.25	0.103	1280
RIP1012-820	82		100/0.25	0.125	1200
RIP1012-101	100	K、M	100/0.25	0.170	1100
RIP1012-121	120		100/0.25	0.186	930
RIP1012-151	150		100/0.25	0.210	840
RIP1012-181	180		100/0.25	0.235	810
RIP1012-221	220		100/0.25	0.300	725
RIP1012-471	470		100/0.25	0.668	500
RIP1012-681	680		100/0.25	1.080	390

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.

• RIP1014 TYPE

Part Number	Inductance (uH)	Tolerance	Test condition (MHz/V)	DCR Max(Ω)	Rated Current Max(mA)
RIP1014-100	10		100/0.25	0.029	4500
RIP1014-120	12		100/0.25	0.031	4000
RIP1014-180	18	K, M	100/0.25	0.054	3200
RIP1014-220	22		100/0.25	0.060	3200
RIP1014-270	27		100/0.25	0.065	2700
RIP1014-330	33		100/0.25	0.070	2400
RIP1014-390	39		100/0.25	0.078	2250
RIP1014-470	47		100/0.25	0.086	2100
RIP1014-560	56		100/0.25	0.094	1900
RIP1014-680	68		100/0.25	0.102	1750
RIP1014-820	82		100/0.25	0.124	1650



Part Number	Inductance (uH)	Tolerance	Test condition (MHz/V)	DCR Max(Ω)	Rated Current Max (mA)
RIP1014-101	100	K. M	100/0.25	0.158	1450
RIP1014-121	120		100/0.25	0.220	1250
RIP1014-151	150		100/0.25	0.248	1180
RIP1014-181	180		100/0.25	0.345	1080
RIP1014-221	220		100/0.25	0.440	920
RIP1014-471	470		100/0.25	0.902	670
RIP1014-681	680		100/0.25	1.330	560

Note: When ordering, please specify tolerance code. Tolerance: K: ±10%, M: ±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.
- 13. Reflow profile recommend:

Lead-free heat endurance test

Lead-free the recommended reflow condition

