

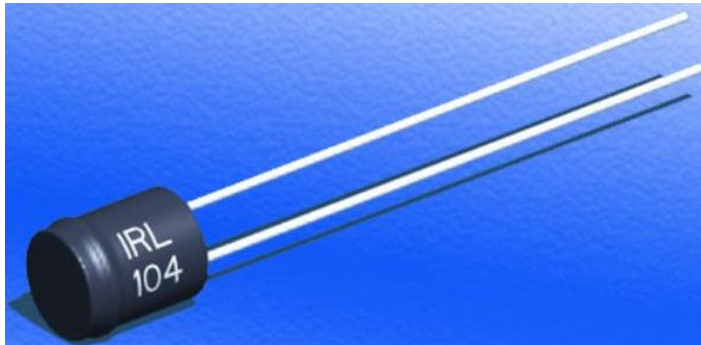


## IRL SERIES Radial Lead Inductors



### DESCRIPTION

The IRL Series is a general-purpose range of inductors suitable for low to medium current applications. Their small footprint makes them ideal for high-density applications where a chip inductor will not cope with the power requirement.



### FEATURES

- ▲ Radial Format
- ▲ Up to 1.8A IDC
- ▲ 10 $\mu$ H to 68mH
- ▲ Low DC Resistance
- ▲ Miniature Size
- ▲ PCB Mounting
- ▲ MIL-I-23053/5 Class III Sleeving
- ▲ Fully Tinned Leads
- ▲ Supplied in Bags of 100
- ▲ Custom Parts Available

### SELECTION GUIDE

Order Code	Inductance $\pm 10\%$ (at 1kHz)	DC Resistance [max]	DC Current Continuous[max]	Nominal Q at f kHz		Nominal Self Resonant Frequency
	$\mu$ H	$\Omega$	A	Q	f	MHz
IRL103	10.0	0.05	1.80	40	1000	21.2
IRL153	15.0	0.06	1.50	30	500	19.4
IRL223	22.0	0.08	1.20	30	500	17.0
IRL333	33.0	0.13	1.00	25	500	11.4
IRL473	47.0	0.20	0.86	25	500	10.9
IRL683	68.0	0.26	0.85	70	100	10.6
IRL104	100.0	0.35	0.74	65	100	8.9
IRL154	150.0	0.49	0.58	80	100	6.2
IRL224	220.0	0.75	0.48	90	100	5.4
IRL334	330.0	1.10	0.42	95	100	4.5
IRL474	470.0	1.50	0.34	100	100	3.2
IRL684	680.0	2.40	0.28	105	100	3.0
IRL105	1.0mH	3.30	0.19	120	100	2.5
IRL155	1.5mH	5.90	0.15	130	100	2.1
IRL225	2.2mH	7.80	0.12	130	50	1.9
IRL335	3.3mH	9.1	0.11	125	150	1.2
IRL475	4.7mH	12.0	0.09	130	150	0.95
IRL685	6.8mH	20.0	0.08	135	150	0.85
IRL106	10.0mH	34.0	0.07	140	150	0.62
IRL156	15.0mH	45.0	0.06	145	150	0.51
IRL226	22.0mH	75.0	0.05	100	50	0.34
IRL336	33.0mH	100.0	0.04	90	50	0.28
IRL476	47.0mH	140.0	0.03	80	50	0.25
IRL686	68.0mH	220.0	0.02	70	50	0.20

### TYPICAL CORE CHARACTERISTICS

Inductance Temperature Coefficient	Resistance Temperature Coefficient	Curie Temperature T <sub>c</sub>	Saturation Flux B <sub>SAT</sub>
350ppm	3900ppm	190°C	325mT



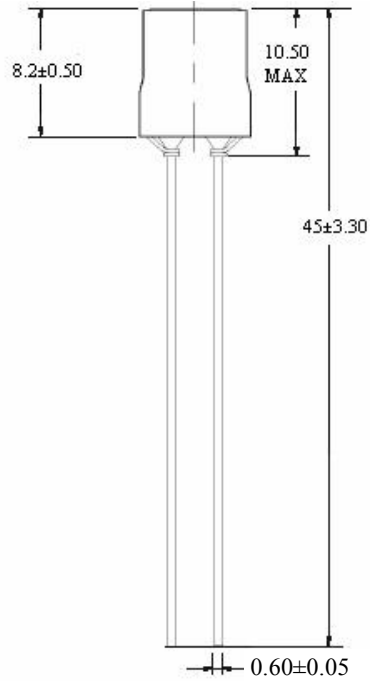
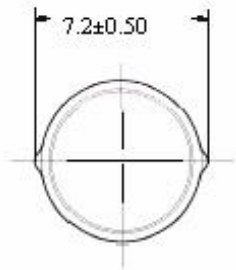
**IRL SERIES**  
**Radial Lead Inductors**



**ABSOLUTE MAXIMUM RATINGS**

Operating free air temperature range	0°C to 70°C
Storage temperature range	-40°C to 125°C
Specifications typical at T <sub>A</sub> =25°C	

**MECHANICAL DIMENSIONS**



**Recommended Footprint Details**

