

Inductors

Epoxy Conformal Coated, Axial Leaded



FEATURES

- Axial lead type, small lightweight design
- Special magnetic core structure contributes to high Q and self-resonant frequencies
- Treated with epoxy resin coating for humidity resistance to ensure long life
- Heat resistant adhesives and special structural design for effective open circuit measurement


RoHS
COMPLIANT

ELECTRICAL SPECIFICATIONS

Inductance Range: 1000 μ H to 39000 μ H

Inductance Tolerance: $\pm 10\%$ standard, $\pm 5\%$ optional

Operating Temperature Range: -20 °C to +105 °C

Dielectric Strength: 250 VRMS

MECHANICAL SPECIFICATIONS

Terminal Strength: Pull = 5 pounds, Twist = 360° x 3

Protection: Epoxy uniform roll coated

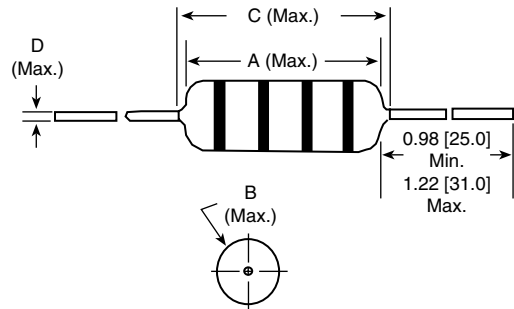
Leads: Tinned copper

ENVIRONMENTAL SPECIFICATIONS

Maximum Temperature Rise: +20 °C

STANDARD ELECTRICAL SPECIFICATIONS						
IND. AT 1 kHz (μ H)	TOL.	Q MIN.	TEST FREQ. (MHz)	DCR MAX. (Ohms)	SRF MIN. (MHz)	RATED DC CURRENT (mA)
1000	$\pm 5\%, \pm 10\%$	80	2.52	8	1.7	200
1200	$\pm 5\%, \pm 10\%$	80	2.52	9	1.5	180
1500	$\pm 5\%, \pm 10\%$	80	2.52	10	1.4	160
1800	$\pm 5\%, \pm 10\%$	80	2.52	11	1.3	150
2200	$\pm 5\%, \pm 10\%$	80	2.52	14	1.2	120
2700	$\pm 5\%, \pm 10\%$	80	2.52	18	1.0	110
3300	$\pm 5\%, \pm 10\%$	80	2.52	22	0.9	105
3900	$\pm 5\%, \pm 10\%$	80	2.52	26	0.8	100
4700	$\pm 5\%, \pm 10\%$	80	2.52	30	0.7	95
5600	$\pm 5\%, \pm 10\%$	60	2.52	34	0.7	80
6800	$\pm 5\%, \pm 10\%$	60	2.52	48	0.5	75
8200	$\pm 5\%, \pm 10\%$	60	2.52	62	0.5	70
10000	$\pm 5\%, \pm 10\%$	60	2.52	74	0.5	65
12000	$\pm 5\%, \pm 10\%$	50	2.52	88	0.4	60
15000	$\pm 5\%, \pm 10\%$	50	2.52	102	0.4	55
18000	$\pm 5\%, \pm 10\%$	40	0.0796	150	0.3	50
22000	$\pm 5\%, \pm 10\%$	40	0.0796	180	0.3	45
27000	$\pm 5\%, \pm 10\%$	40	0.0796	210	0.3	40
30000	$\pm 5\%, \pm 10\%$	40	0.0796	240	0.3	35
33000	$\pm 5\%, \pm 10\%$	40	0.0796	250	0.2	30
39000	$\pm 5\%, \pm 10\%$	40	0.0796	270	0.2	25

DIMENSIONS in inches [millimeters]



MODEL	A (Max.)	B (Max.)	C (Max.)	D (Max.)
IRF-46	0.236 [6.0]	0.197 [5.0]	0.551 [14.0]	0.026 [0.65]

DESCRIPTION

IRF-46	15000 μH	$\pm 10\%$	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER INFORMATION

I R F	4 6	E R	1 5 3	K
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	TOL.



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