

## 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

### STANDARD ELECTRICAL SPECIFICATIONS

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

### ELECTRICAL SPECIFICATIONS

**Inductance Range:** 1000 μH to 39000 μH

**Inductance Tolerance:** ± 10 % standard, ± 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

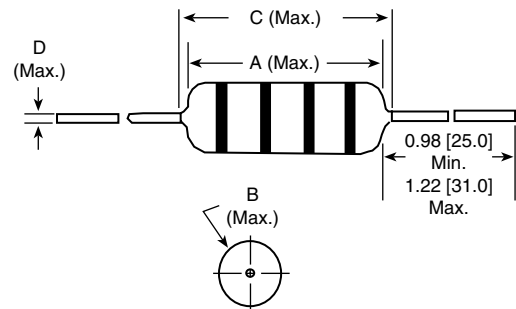
**Protection:** Epoxy uniform roll coated

**Leads:** Tinned copper

### ENVIRONMENTAL SPECIFICATIONS

**Maximum Temperature Rise:** + 20 °C

### 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

<b>IRF-46</b>	<b>15000 μH</b>	<b>± 10 %</b>	<b>ER</b>	<b>e3</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

### GLOBAL PART NUMBER INFORMATION

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



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