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

Pb-free
RoHS COMPLIANT

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

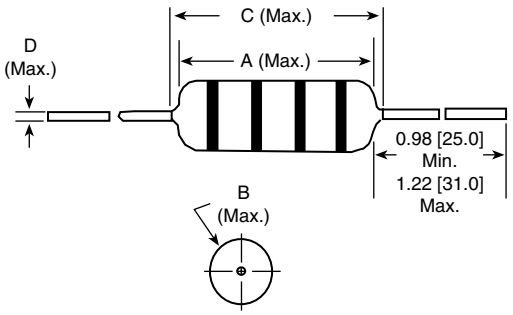
ENVIRONMENTAL SPECIFICATIONS

Maximum Temperature Rise: + 20 °C

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

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	± 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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