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
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

HALOGEN FREE

ELECTRICAL SPECIFICATIONS

Inductance Range: 1000 µH to 39 000 µH

Inductance Tolerance: ± 10 % standard, ± 5 % optional

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

Dielectric Strength: 250 V_{RMS}

MECHANICAL SPECIFICATIONS

Terminal Strength: pull = 5 pounds, twist = 360 °C x 3

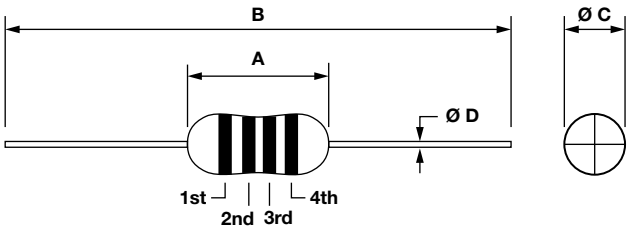
Protection: epoxy uniform roll coated

Leads: tinned copper

ENVIRONMENTAL SPECIFICATIONS

Maximum Temperature Rise: +20 °C

DIMENSIONS in inches [millimeters]



MODEL	A (MAX.)	B	C (MAX.)	D
IRF-46	0.394 [10.0]	2.480 ± 0.039 [63.0 ± 1.0]	0.205 [5.2]	0.026 ± 0.002 [0.65 ± 0.05]

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (µH)	TOL. (%)	Q MIN.	TEST FREQUENCY (MHz)	DCR MAX. (Ω)	SRF MIN. (MHz)	RATED DC CURRENT (mA)
IRF-46	1000	± 5, ± 10	80	2.52	8	1.7	200
IRF-46	1200	± 5, ± 10	80	2.52	9	1.5	180
IRF-46	1500	± 5, ± 10	80	2.52	10	1.4	160
IRF-46	1800	± 5, ± 10	80	2.52	11	1.3	150
IRF-46	2200	± 5, ± 10	80	2.52	14	1.2	120
IRF-46	2700	± 5, ± 10	80	2.52	18	1.0	110
IRF-46	3300	± 5, ± 10	80	2.52	22	0.9	105
IRF-46	3900	± 5, ± 10	80	2.52	26	0.8	100
IRF-46	4700	± 5, ± 10	80	2.52	30	0.7	95
IRF-46	5600	± 5, ± 10	60	2.52	34	0.7	80
IRF-46	6800	± 5, ± 10	60	2.52	48	0.5	75
IRF-46	8200	± 5, ± 10	60	2.52	62	0.5	70
IRF-46	10 000	± 5, ± 10	60	0.0796	74	0.5	65
IRF-46	12 000	± 5, ± 10	50	0.0796	88	0.4	60
IRF-46	15 000	± 5, ± 10	50	0.0796	102	0.4	55
IRF-46	18 000	± 5, ± 10	40	0.0796	150	0.3	50
IRF-46	22 000	± 5, ± 10	40	0.0796	180	0.3	45
IRF-46	27 000	± 5, ± 10	40	0.0796	210	0.3	40
IRF-46	30 000	± 5, ± 10	40	0.0796	240	0.3	35
IRF-46	33 000	± 5, ± 10	40	0.0796	250	0.2	30
IRF-46	39 000	± 5, ± 10	40	0.0796	270	0.2	25

For technical questions, contact: magnetics@vishay.com

ORDERING INFORMATION

IRF-46	15 000 µH	± 10 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	R	F	4	6	E	R	1	5	3	K
MODEL					PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE

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