

Inductors, Epoxy Conformal Coated, Axial Leaded



ELECTRICAL SPECIFICATIONS

Inductance Range: 1000 μ H to 39 000 μ H

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

Operating Temperature Range: $-20\text{ }^{\circ}\text{C}$ to $+105\text{ }^{\circ}\text{C}$

Dielectric Strength: 250 V_{RMS}

MECHANICAL SPECIFICATIONS

Terminal Strength: pull = 5 pounds, twist = $360\text{ }^{\circ}\text{C} \times 3$

Protection: epoxy uniform roll coated

Leads: tinned copper

ENVIRONMENTAL SPECIFICATIONS

Maximum Temperature Rise: $+20\text{ }^{\circ}\text{C}$

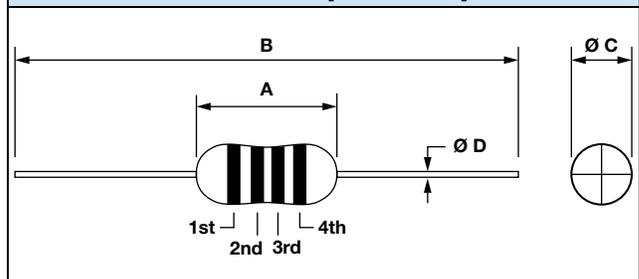
FEATURES

- 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



RoHS
COMPLIANT
HALOGEN
FREE

DIMENSIONS in inches [millimeters]



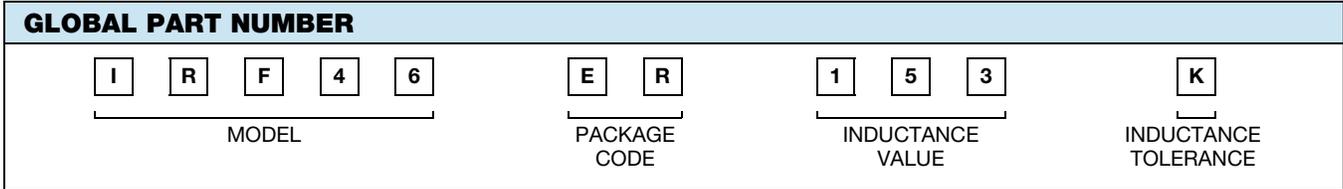
MODEL	A (MAX.)	B	C (MAX.)	D
IRF-46	0.394 [10.0]	2.480 \pm 0.039 [63.0 \pm 1.0]	0.205 [5.2]	0.026 \pm 0.002 [0.65 \pm 0.05]

STANDARD ELECTRICAL SPECIFICATIONS

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



ORDERING INFORMATION				
IRF-46	15 000 μ H	$\pm 10 \%$	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD





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