

Inductors

Epoxy Conformal Coated, Axial Leaded



STANDARD ELECTRICAL SPECIFICATIONS

IND. (μ H)	TOL.	Q MIN.	TEST FREQ. (MHz)	SRF MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
0.10	$\pm 10\%$	30	25.2	280	0.085	1400
0.12	$\pm 10\%$	30	25.2	280	0.085	1350
0.15	$\pm 10\%$	30	25.2	280	0.095	1270
0.18	$\pm 10\%$	30	25.2	280	0.12	1200
0.22	$\pm 10\%$	40	25.2	280	0.15	1150
0.27	$\pm 10\%$	40	25.2	260	0.15	1110
0.33	$\pm 10\%$	40	25.2	260	0.15	1110
0.39	$\pm 10\%$	40	25.2	220	0.17	1000
0.47	$\pm 10\%$	40	25.2	200	0.17	1000
0.56	$\pm 10\%$	40	25.2	180	0.17	950
0.68	$\pm 10\%$	40	25.2	160	0.18	900
0.82	$\pm 10\%$	40	25.2	140	0.18	900
1.0	$\pm 5\%, \pm 10\%$	40	25.2	135	0.18	815
1.2	$\pm 5\%, \pm 10\%$	40	7.96	135	0.18	740
1.5	$\pm 5\%, \pm 10\%$	40	7.96	130	0.20	700
1.8	$\pm 5\%, \pm 10\%$	40	7.96	125	0.23	655
2.2	$\pm 5\%, \pm 10\%$	40	7.96	80	0.25	630
2.7	$\pm 5\%, \pm 10\%$	40	7.96	80	0.28	595
3.3	$\pm 5\%, \pm 10\%$	40	7.96	70	0.30	575
3.9	$\pm 5\%, \pm 10\%$	40	7.96	65	0.32	555
4.7	$\pm 5\%, \pm 10\%$	40	7.96	45	0.35	530
5.6	$\pm 5\%, \pm 10\%$	40	7.96	40	0.40	500
6.8	$\pm 5\%, \pm 10\%$	40	7.96	30	0.45	470
8.2	$\pm 5\%, \pm 10\%$	40	7.96	28	0.56	425
10	$\pm 5\%, \pm 10\%$	40	7.96	22	0.72	370
12	$\pm 5\%, \pm 10\%$	40	2.52	20	0.80	350
15	$\pm 5\%, \pm 10\%$	40	2.52	16	0.88	335
18	$\pm 5\%, \pm 10\%$	40	2.52	15	1.0	315
22	$\pm 5\%, \pm 10\%$	40	2.52	13	1.2	285
27	$\pm 5\%, \pm 10\%$	40	2.52	11	1.35	270
33	$\pm 5\%, \pm 10\%$	40	2.52	10	1.50	255
39	$\pm 5\%, \pm 10\%$	40	2.52	9.5	1.70	240
47	$\pm 5\%, \pm 10\%$	50	2.52	8.5	2.30	205
56	$\pm 5\%, \pm 10\%$	50	2.52	7.5	2.60	195
68	$\pm 5\%, \pm 10\%$	50	2.52	6.5	2.90	185
82	$\pm 5\%, \pm 10\%$	50	2.52	6.0	3.20	175
100	$\pm 5\%, \pm 10\%$	50	2.52	5.5	3.70	165
120	$\pm 5\%, \pm 10\%$	60	0.796	5.4	3.80	160
150	$\pm 5\%, \pm 10\%$	60	0.796	4.75	4.90	150
180	$\pm 5\%, \pm 10\%$	60	0.796	4.35	5.0	140
220	$\pm 5\%, \pm 10\%$	60	0.796	4.0	6.50	130
270	$\pm 5\%, \pm 10\%$	60	0.796	3.7	7.5	120
330	$\pm 5\%, \pm 10\%$	60	0.796	3.4	9.5	100
390	$\pm 5\%, \pm 10\%$	60	0.796	2.8	10.5	95
470	$\pm 5\%, \pm 10\%$	60	0.796	2.56	17.5	90
560	$\pm 5\%, \pm 10\%$	60	0.796	2.35	18.5	85
680	$\pm 5\%, \pm 10\%$	60	0.796	2.0	20.0	75
820	$\pm 5\%, \pm 10\%$	60	0.796	1.60	23.7	65
1000	$\pm 5\%, \pm 10\%$	50	0.796	1.15	30.0	60

FEATURES

- High performance ferrite core is used in this epoxy conformally coated choke which allows for inductance values to 1000 μ H
- 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


RoHS
COMPLIANT

ELECTRICAL SPECIFICATIONS

Inductance Range: 0.1 μ H to 1000 μ H

Inductance Tolerance: $\pm 10\%$ from 0.1 μ H to 1000 μ H standard, $\pm 5\%$ 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

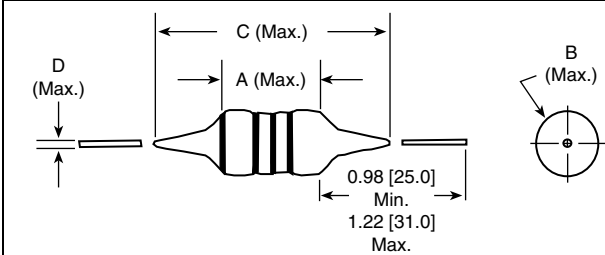
Protection: Epoxy uniform roll coated

Leads: Tinned copper

ENVIRONMENTAL SPECIFICATIONS

Maximum Temperature Rise: + 20 °C

DIMENSIONS in inches [millimeters]

				
MODEL	A (Max.)	B (Max.)	C (Max.)	D (Max.)
IRF-24	0.157 [4.0]	0.118 [3.0]	0.394 [10.0]	0.020 [0.5]

DESCRIPTION

IRF-24	6.8 μ H	$\pm 10\%$	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER INFORMATION

I R F	2 4	E R	6 R 8	K
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	TOL.



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