

Inductors

Epoxy Conformal Coated, Axial Leaded



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

ELECTRICAL SPECIFICATIONS

Inductance Range: 0.1μH to 1000μH.

Inductance Tolerance: ± 10% from 0.1μH to 1000μH standard, ± 5% optional.

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

Dielectric Strength: 250V 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]

ORDERING INFORMATION		
IRF-24	6.8μH	± 10%
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE