

Inductors

Epoxy Conformal Coated, Axial Leaded



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.

ELECTRICAL SPECIFICATIONS

Inductance Range: .1 μ H to 1000 μ H.

Inductance Tolerance: $\pm 20\%$ from .1 μ H to .82 μ H.
5% and $\pm 10\%$ from 1.0 μ H to 1000 μ H standard.

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.

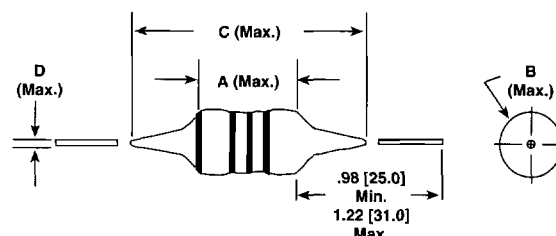
ENVIRONMENTAL SPECIFICATIONS

Maximum Temperature Rise: + 20°C.

STANDARD ELECTRICAL SPECIFICATIONS

IND. (μ H)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF- RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
.1	$\pm 20\%$	30	25.2	280	.085	700
.12	$\pm 20\%$	30	25.2	280	.085	700
.15	$\pm 20\%$	30	25.2	280	.095	700
.18	$\pm 20\%$	30	25.2	280	.12	700
.22	$\pm 20\%$	40	25.2	280	.15	700
.27	$\pm 20\%$	40	25.2	260	.15	700
.33	$\pm 20\%$	40	25.2	260	.15	700
.39	$\pm 20\%$	40	25.2	220	.17	700
.47	$\pm 20\%$	40	25.2	200	.17	700
.56	$\pm 20\%$	40	25.2	180	.17	700
.68	$\pm 20\%$	40	25.2	160	.18	700
.82	$\pm 20\%$	40	25.2	140	.18	700
1	$\pm 10\%$	40	25.2	135	.18	700
1.2	$\pm 10\%$	40	7.96	135	.18	700
1.5	$\pm 10\%$	40	7.96	130	.20	700
1.8	$\pm 10\%$	40	7.96	125	.23	655
2.2	$\pm 10\%$	40	7.96	80	.25	630
2.7	$\pm 10\%$	40	7.96	80	.28	595
3.3	$\pm 10\%$	40	7.96	70	.30	575
3.9	$\pm 10\%$	40	7.96	65	.32	555
4.7	$\pm 10\%$	40	7.96	45	.35	530
5.6	$\pm 10\%$	40	7.96	40	.40	500
6.8	$\pm 10\%$	40	7.96	30	.45	470
8.2	$\pm 10\%$	40	7.96	28	.56	425
10	$\pm 10\%$	40	7.96	22	.72	370
12	$\pm 10\%$	40	2.52	20	.80	350
15	$\pm 10\%$	40	2.52	16	.88	335
18	$\pm 10\%$	40	2.52	15	1	315
22	$\pm 10\%$	40	2.52	13	1.2	285
27	$\pm 10\%$	40	2.52	11	1.35	270
33	$\pm 10\%$	40	2.52	10	1.50	255
39	$\pm 10\%$	40	2.52	9.5	1.70	240
47	$\pm 10\%$	50	2.52	8.5	2.30	205
56	$\pm 10\%$	50	2.52	7.5	2.60	195
68	$\pm 10\%$	50	2.52	6.5	2.90	185
82	$\pm 10\%$	50	2.52	6	3.20	175
100	$\pm 10\%$	50	2.52	5.5	3.70	165
120	$\pm 10\%$	60	.796	5.4	3.80	160
150	$\pm 10\%$	60	.796	4.75	4.90	150
180	$\pm 10\%$	60	.796	4.35	5	140
220	$\pm 10\%$	60	.796	4	6.50	130
270	$\pm 10\%$	60	.796	3.7	7.5	120
330	$\pm 10\%$	60	.796	3.4	9.5	100
390	$\pm 10\%$	60	.796	2.8	10.5	95
470	$\pm 10\%$	60	.796	2.56	17.5	90
560	$\pm 10\%$	60	.796	2.35	18.5	85
680	$\pm 10\%$	60	.796	2	20.0	75
820	$\pm 10\%$	60	.796	1.60	23.7	65
1000	$\pm 10\%$	50	.796	1.15	30	60

DIMENSIONAL CONFIGURATIONS



[Numbers in brackets indicate millimeters]

MODEL	A (Max.)	B (Max.)	C (Max.)	D (Max.)
IRF-24	.157 [4.0]	.118 [3.0]	.394 [10.0]	.020 [0.5]

HOW TO ORDER

IRF-24	6.8 μ H	$\pm 10\%$
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE