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

Pb-free
RoHS COMPLIANT
HALOGEN FREE

ELECTRICAL SPECIFICATIONS

Inductance Range: 0.1 µH to 1000 µH

Inductance Tolerance: ± 10 % from 0.1 µH to 1000 µH 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

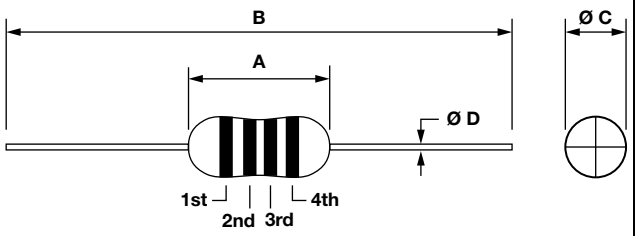
Protection: Epoxy uniform roll coated

Leads: Tinned copper

ENVIRONMENTAL SPECIFICATIONS

Maximum Temperature Rise: + 20 °C

DIMENSIONS in inches [millimeters]



MODEL	A (MAX.)	B	C (MAX.)	D
IRF-24	0.276 [7.0]	2.480 ± 0.039 [63.0 ± 1.0]	0.118 [3.0]	0.020 ± 0.002 [0.50 ± 0.05]

STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (µH)	TOL. (%)	Q MIN.	TEST FREQUENCY (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
IRF-24	0.10	± 20	30	25.2	280	0.085	1400
IRF-24	0.12	± 20	30	25.2	280	0.085	1350
IRF-24	0.15	± 20	30	25.2	280	0.095	1270
IRF-24	0.18	± 20	30	25.2	280	0.12	1200
IRF-24	0.22	± 20	40	25.2	280	0.15	1150
IRF-24	0.27	± 20	40	25.2	260	0.15	1110
IRF-24	0.33	± 20	40	25.2	260	0.15	1110
IRF-24	0.39	± 20	40	25.2	220	0.17	1000
IRF-24	0.47	± 20	40	25.2	200	0.17	1000
IRF-24	0.56	± 20	40	25.2	180	0.17	950
IRF-24	0.68	± 20	40	25.2	160	0.18	900
IRF-24	0.82	± 20	40	25.2	140	0.18	900
IRF-24	1.0	± 5, ± 10	40	25.2	135	0.18	815
IRF-24	1.2	± 5, ± 10	40	7.96	135	0.18	740
IRF-24	1.5	± 5, ± 10	40	7.96	130	0.20	700
IRF-24	1.8	± 5, ± 10	40	7.96	125	0.23	655
IRF-24	2.2	± 5, ± 10	40	7.96	80	0.25	630
IRF-24	2.7	± 5, ± 10	40	7.96	80	0.28	595
IRF-24	3.3	± 5, ± 10	40	7.96	70	0.30	575
IRF-24	3.9	± 5, ± 10	40	7.96	65	0.32	555
IRF-24	4.7	± 5, ± 10	40	7.96	45	0.35	530
IRF-24	5.6	± 5, ± 10	40	7.96	40	0.40	500
IRF-24	6.8	± 5, ± 10	40	7.96	30	0.45	470
IRF-24	8.2	± 5, ± 10	40	7.96	28	0.56	425

For technical questions, contact: magnetics@vishay.com
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STANDARD ELECTRICAL SPECIFICATIONS

MODEL	IND. (µH)	TOL. (%)	Q MIN.	TEST FREQUENCY (MHz)	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
IRF-24	10	± 5, ± 10	40	7.96	22	0.72	370
IRF-24	12	± 5, ± 10	40	2.52	20	0.80	350
IRF-24	15	± 5, ± 10	40	2.52	16	0.88	335
IRF-24	18	± 5, ± 10	40	2.52	15	1.0	315
IRF-24	22	± 5, ± 10	40	2.52	13	1.2	285
IRF-24	27	± 5, ± 10	40	2.52	11	1.35	270
IRF-24	33	± 5, ± 10	40	2.52	10	1.5	255
IRF-24	39	± 5, ± 10	40	2.52	9.5	1.7	240
IRF-24	47	± 5, ± 10	50	2.52	8.5	2.3	205
IRF-24	56	± 5, ± 10	50	2.52	7.5	2.6	195
IRF-24	68	± 5, ± 10	50	2.52	6.5	2.9	185
IRF-24	82	± 5, ± 10	50	2.52	6.0	3.2	175
IRF-24	100	± 5, ± 10	50	2.52	5.5	3.7	165
IRF-24	120	± 5, ± 10	60	0.796	5.4	3.8	160
IRF-24	150	± 5, ± 10	60	0.796	4.75	4.9	150
IRF-24	180	± 5, ± 10	60	0.796	4.35	5.5	140
IRF-24	220	± 5, ± 10	60	0.796	4.0	6.5	130
IRF-24	270	± 5, ± 10	60	0.796	3.7	7.5	120
IRF-24	330	± 5, ± 10	60	0.796	3.4	9.5	100
IRF-24	390	± 5, ± 10	60	0.796	2.8	10.5	95
IRF-24	470	± 5, ± 10	60	0.796	2.56	17.5	90
IRF-24	560	± 5, ± 10	60	0.796	2.35	19.5	85
IRF-24	680	± 5, ± 10	60	0.796	2.0	20.0	75
IRF-24	820	± 5, ± 10	60	0.796	1.60	23.7	65
IRF-24	1000	± 5, ± 10	50	0.796	1.15	30.0	60

ORDERING INFORMATION

IRF-24	**6.8 µH**	**± 10 %**	**ER**	**e3**
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	R	F	2	4	E	R	6	R	8	K
MODEL					PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE

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