



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Inductors, Epoxy Conformal Coated, Axial Leaded



ELECTRICAL SPECIFICATIONS

Inductance Range: 0.1 μH to 1000 μH

Inductance Tolerance: $\pm 10\%$ from 0.1 μH to 1000 μH 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

- 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



RoHS
COMPLIANT
HALOGEN
FREE

DIMENSIONS in inches [millimeters]

MODEL	A (MAX.)	B	C (MAX.)	D
IRF-24	0.276 [7.0]	2.480 \pm 0.039 [63.0 \pm 1.0]	0.118 [3.0]	0.020 \pm 0.002 [0.50 \pm 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	$\pm 5, \pm 10$	40	25.2	135	0.18	815
IRF-24	1.2	$\pm 5, \pm 10$	40	7.96	135	0.18	740
IRF-24	1.5	$\pm 5, \pm 10$	40	7.96	130	0.20	700
IRF-24	1.8	$\pm 5, \pm 10$	40	7.96	125	0.23	655
IRF-24	2.2	$\pm 5, \pm 10$	40	7.96	80	0.25	630
IRF-24	2.7	$\pm 5, \pm 10$	40	7.96	80	0.28	595
IRF-24	3.3	$\pm 5, \pm 10$	40	7.96	70	0.30	575
IRF-24	3.9	$\pm 5, \pm 10$	40	7.96	65	0.32	555
IRF-24	4.7	$\pm 5, \pm 10$	40	7.96	45	0.35	530
IRF-24	5.6	$\pm 5, \pm 10$	40	7.96	40	0.40	500
IRF-24	6.8	$\pm 5, \pm 10$	40	7.96	30	0.45	470
IRF-24	8.2	$\pm 5, \pm 10$	40	7.96	28	0.56	425



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
8	K		
MODEL		PACKAGE CODE	INDUCTANCE VALUE
			INDUCTANCE TOLERANCE



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