

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, ± 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

FEATURES

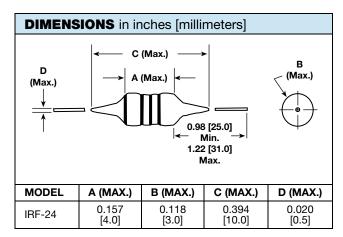
• High performance ferrite core is used in this epoxy conformally coated choke which allows for inductance values to 1000 μH



RoHS COMPLIANT HALOGEN

FREE

- 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 <u>www.vishay.com/doc?99912</u>



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



www.vishay.com

Vishay Dale

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	1.50	255
IRF-24	39	± 5, ± 10	40	2.52	9.5	1.70	240
IRF-24	47	± 5, ± 10	50	2.52	8.5	2.30	205
IRF-24	56	± 5, ± 10	50	2.52	7.5	2.60	195
IRF-24	68	± 5, ± 10	50	2.52	6.5	2.90	185
IRF-24	82	± 5, ± 10	50	2.52	6.0	3.20	175
IRF-24	100	± 5, ± 10	50	2.52	5.5	3.70	165
IRF-24	120	± 5, ± 10	60	0.796	5.4	3.80	160
IRF-24	150	± 5, ± 10	60	0.796	4.75	4.90	150
IRF-24	180	± 5, ± 10	60	0.796	4.35	5.0	140
IRF-24	220	± 5, ± 10	60	0.796	4.0	6.50	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	18.5	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	К				
MODEL	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE				



Legal Disclaimer Notice

Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and/or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.

Material Category Policy

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as RoHS-Compliant fulfill the definitions and restrictions defined under Directive 2011/65/EU of The European Parliament and of the Council of June 8, 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (EEE) - recast, unless otherwise specified as non-compliant.

Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

Vishay Intertechnology, Inc. hereby certifies that all its products that are identified as Halogen-Free follow Halogen-Free requirements as per JEDEC JS709A standards. Please note that some Vishay documentation may still make reference to the IEC 61249-2-21 definition. We confirm that all the products identified as being compliant to IEC 61249-2-21 conform to JEDEC JS709A standards.

Revision: 02-Oct-12 Document Number: 91000