

www.vishay.com

Vishay Dale

High Frequency, Surface Mount, Laser Spiral, Coated Inductors

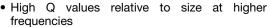


STANDARD ELECTRICAL SPECIFICATIONS										
IND.		TEST FREQ. (MHz)		Q	SRF MIN.	DCR MAX.	RATED DC CURRENT			
(nH)	TOL.	L	Q	MIN.	(MHz)	(Ω)	(mA) ⁽¹⁾			
1.0	0.3 nH, 0.2 nH	100	800	21	6000	0.05	400			
1.2	0.3 nH, 0.2 nH	100	800	21	6000	0.06	400			
1.5	0.3 nH, 0.2 nH	100	800	21	6000	0.07	400			
1.8	0.3 nH, 0.2 nH	100	800	21	6000	0.08	400			
2.2	0.3 nH, 0.2 nH	100	800	21	6000	0.09	400			
2.7	0.3 nH, 0.2 nH	100	800	21	5500	0.10	400			
3.3	0.3 nH, 0.2 nH	100	800	21	5500	0.12	400			
3.9	0.3 nH, 0.2 nH	100	800	20	5200	0.15	360			
4.7	0.3 nH, 0.2 nH	100	800	20	4800	0.17	360			
5.6	0.3 nH, 0.2 nH	100	800	20	4600	0.19	340			
6.8	5 %	100	800	19	4000	0.30	320			
8.2	5 %	100	800	19	3500	0.35	320			
10	5 %, 2 %	100	800	19	2800	0.41	320			
12	5 %, 2 %	100	800	19	2800	0.45	320			
15	5 %, 2 %	100	800	19	2500	0.60	240			
18	5 %, 2 %	100	800	19	2200	0.70	240			
22	5 %, 2 %	100	800	19	2000	0.80	200			
27	5 %, 2 %	100	800	19	1800	1.20	200			
33	5 %, 2 %	100	800	18	1800	1.40	170			
39	5 %, 2 %	100	800	18	1800	1.70	150			
47	5 %, 2 %	100	800	17	1800	2.10	140			
56	5 %, 2 %	100	800	17	1500	2.50	130			
68	5 %, 2 %	100	800	15	1500	4.00	120			
82	5 %, 2 %	100	800	15	1400	4.50	110			
100	5 %, 2 %	100	800	14	1200	5.50	90			

Note

FEATURES

- Very small size
- High self-resonant frequency values





Coated coil provides protection and moisture

COMPLIANT

- resistance

 Compatible with vapor phase and infrared reflow
- Soldering
 Tape and reel packaging for automatic handling,
- 10 000/reel, EIA-481
- L and Q value not affected by mounting orientation
 Material extensization; for definitions of complications
- Material categorization: for definitions of compliance please see <u>www.vishay.com/doc?99912</u>

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 nH to 100 nH

Inductance and Tolerance: ± 0.3 nH for 1.0 nH to 5.6 nH,

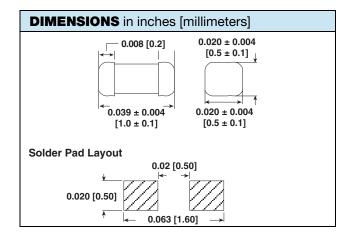
± 5 % for 6.8 nH to 100 nH

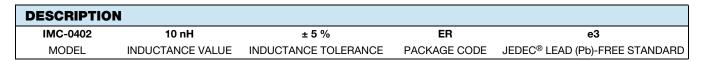
Operating Temperature: -40 °C to +100 °C

Core Material: Ceramic

TEST EQUIPMENT

- Inductance and Q measured on HP4291B
- SRF measured on HP8753E
- DCR measured on HP4338B





GLOBAL PART NUMBER									
PRODUCT FAMILY	0 4 0 2 SIZE	PACKAGE CODE	1 0 N INDUCTANCE VALUE	J TOL.					

⁽¹⁾ Value obtained when current flows and temperature has risen 15 °C



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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Fixed Inductors category:

Click to view products by Vishay manufacturer:

Other Similar products are found below:

MLZ1608M6R8WTD25 MLZ1608N6R8LT000 MLZ1608N3R3LTD25 MLZ1608N3R3LTD00 MLZ1608N150LT000 MLZ1608N150LT000 MLZ1608M150WTD25 MLZ1608M3R3WTD25 MLZ1608M3R3WTD00 MLZ1608M150WT000 MLZ1608A1R5WT000 MLZ1608N1R5LT000 PCMB053T-1R0MS PCMB053T-1R5MS PCMB104T-1R5MS CR32NP-100KC CR32NP-151KC CR32NP-180KC CR32NP-181KC CR32NP-390KC CR32NP-3R9MC CR32NP-680KC CR32NP-820KC CR32NP-8R2MC CR43NP-390KC CR43NP-560KC CR43NP-680KC CR54NP-181KC CR54NP-470LC CR54NP-820KC CR54NP-8R5MC MGDQ4-00004-P MHL1ECTTP18NJ MHL1JCTTD12NJ PE-51506NL PE-53601NL PE-53630NL PE-53824SNLT PE-92100NL PG0434.801NLT PG0936.113NLT PM06-2N7 PM06-39NJ HC2LP-R47-R HC3-2R2-R HC3-R50-R HC8-1R2-R HCF1305-3R3-R 1248AS-H-6R8N=P3 RCH664NP-140L