IMC-1812

www.vishay.com

Vishay Dale

Wirewound, Surface-Mount, Molded Inductors



STANDARD ELECTRI			CAL	SPECIFICATIONS		
IND.	TO	TEST FREQ. (MHz)	Q	SRF MIN.	DCR MAX.	RATED DC CURRENT
	-			• •	• •	
(µH) 0.010 0.012 0.012 0.012 0.022 0.027 0.033 0.039 0.047 0.056 0.068 0.082 0.10 0.12 0.15 0.18 0.22 0.27 0.33 0.39 0.47 0.56 0.68 0.82 1.0 1.2 1.5 1.8 2.2 2.7 3.3 9 0.47 5.6 6.8 8 2.2 1.0 1.2 1.5 1.8 2.2 2.7 3.3 9 0.47 5.6 6.8 8 2.2 1.0 1.2 1.5 0.56 0.82 1.0 1.2 1.5 0.33 0.39 0.47 0.56 0.68 0.82 1.0 1.2 1.5 1.8 2.2 2.7 3.3 9 0.47 5.6 6.8 8 2.2 1.0 1.2 0.50 1.2 0.50 0.56 0.82 1.0 1.2 1.5 0.56 0.82 1.0 1.2 1.5 0.56 0.82 1.0 1.2 1.5 0.56 0.82 1.0 1.2 1.5 0.56 0.82 1.0 1.2 0.33 0.39 0.47 0.56 0.82 1.0 1.2 1.5 0.56 0.82 1.0 1.2 0.50 1.8 0.27 0.33 0.39 0.47 0.56 0.82 1.0 1.2 1.5 0.56 0.82 1.0 1.2 0.50 1.2 0.3 0.39 0.47 5.6 6.8 8.2 1.00 1.50 1.50 1.80 22.00 27.00 33.0 39.0 47.0 5.60 6.80 82.0 1.00 1.50 1.80 22.00 27.00 33.00 39.00 47.00 560.0 68.0 82.00 1.50 1.80 0.220 0.27 0.33 0.39 0.47 0.56 0.68 0.82 1.0 1.20 1.50 1.80 0.220 0.27.00 33.00 39.00 47.00 560.0 68.0 82.00 1.500 1.800 22.00 27.00 30.00 39.00 47.00 560.0 82.00 1.500 1.800 22.00 27.00 30.00 30.00 27.00 30.00 30.00 27.00 30.00 27.00 30.00 27.00 30.00 30.00 27.00 30.00 27.00 30.00 27.00 30.00 27.00 30.00 30.00 27.00 30.00 27.00 30.00 30.00 30.00 27.00 30.00 3	TOL. $\frac{1}{200\%$	L & Q 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.0 50.2 25.2 2.52	MIN 50 50 50 50 50 50 50 50 50 50 50 50 50	(MHz) 1000	 (Ω) 0.20 0.20 0.20 0.20 0.20 0.20 0.20 0.30 0.30 0.35 0.40 0.55 0.60 0.55 0.60 0.65 0.60 0.75 0.80 0.40 0.55 0.60 0.75 0.80 0.40 0.55 0.60 0.75 0.80 0.40 0.55 0.60 0.75 0.80 0.90 1.00 1.20 1.40 2.50 2.80 3.20 4.00 4.50 5.050 6.00 7.00 8.00 9.50 10.0 12.0 14.0 26.0 30.0 30.0 30.0 30.0 30.0 30.0 30.0 	(mA) (1) 450 450 450 450 450 450 450 450

FEATURES

 Molded construction provides superior strength and moisture resistance



COMPLIANT

- Tape and reel packaging for automatic handling, 2000/reel, EIA-481
- Printed marking
- · Compatible with vapor phase and infrared reflow soldering
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

ELECTRICAL SPECIFICATIONS

Inductance range: 0.010 µH to 1000 µH

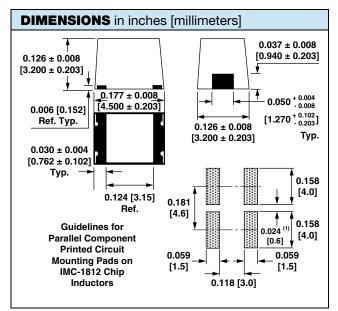
Special tolerances available upon request

Operating temperature: -55 °C to +125 °C

Coilform material: non-magnetic for 0.010 µH to 0.82 µH; powdered iron for 1.0 µH to 120 µH; ferrite for 150 µH to 1000 µH

TEST EQUIPMENT

- H/P 4342A Q meter with Vishay Dale test fixture or equivalent
- H/P 4191A SRF RF impedance analyzer (for measurements)
- Wheatstone bridge



Note

⁽¹⁾ Recommended minimum spacing between components

PART MARKING

- Vishay Dale
- Inductance code
- Date code

Rated DC current based on the maximum temperature rise, not to exceed 40 °C at +85 °C ambient

Revision: 10-Sep-2019

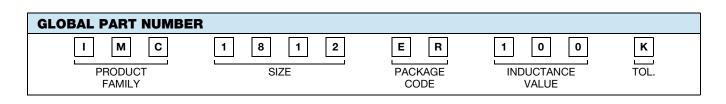
1

Document Number: 34044

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishav.com/doc?91000

VISHAY,	IMC-1812
www.vishay.com	Vishay Dale
DESCRIPTION	

	IMC-1812	10 µH	± 10 %	ER	e3		
	MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC [®] LEAD (Pb)-FREE STANDARD		





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.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

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.