

# **High Frequency, Surface Mount Inductors**



STANDARD ELECTRICAL SPECIFICATIONS									
IND. (nH)	TOL.	(M _L	FREQ. Hz) Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)		
3.3 6.8 8.2 10 12 15 18 22 27 33 47 56 68 82 100 1200 1500 330 470 560 680 750 820 910 1200 1200 1200 1200 2700 3390 4700 5600 6800 1200 1200 1200 1500 1200 1200 1500 1200 12	ПЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖЖ	100 100 100 100 100 100 100 100 100 100	1000 1000 1000 500 350 350 350 350 350 350 100 100 100 100 100 100 100 100 7.96 7.96 7.96 7.96 7.96 7.96 7.96 7.96	50000000000000000000000000000000000000	6000 5500 4300 2700 2700 2500 1800 1700 1500 1100 1100 950 880 800 730 6570 530 480 330 330 330 330 330 280 200 130 130 130 130 130 130 130 1	0.06 0.08 0.08 0.10 0.10 0.10 0.10 0.12 0.15 0.18 0.22 0.33 0.45 0.75 1.06 2.20 2.30 2.30 2.30 2.60 2.80 3.50 3.50 4.50 6.50 6.50 6.50 6.50 6.50 6.50 6.50 6	1000 1000 1000 1000 1000 1000 1000 100		

#### **FEATURES**

- High self-resonant frequency values
- High Q values at higher frequencies



COMPLIANT

- Wirewound construction
- Compatible with vapor phase and infrared reflow soldering
- Tape and reel packaging for automatic handling, 2000/reel
- Material categorization: for definitions of compliance please see <a href="https://www.vishav.com/doc?99912">www.vishav.com/doc?99912</a>

#### **ELECTRICAL SPECIFICATIONS**

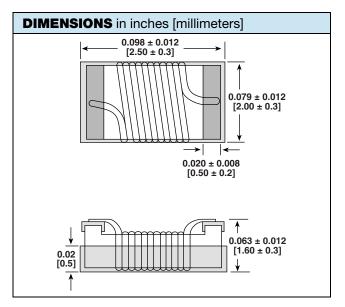
Inductance Range: 3.3 nH to 47 000 nH Inductance and Tolerance: 0.3 nH for 3.3 nH

± 5 % for 6.8 nH to 47 000 nH

**Operating Temperature:** -40 °C to +125 °C **Core Material:** Ceramic from 3.3 nH to 1000 nH Ferrite from 1200 nH to 47 000 nH

#### **TEST EQUIPMENT**

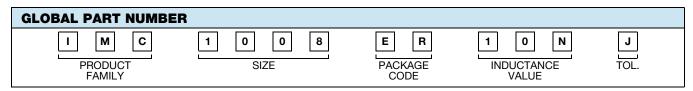
- Inductance and Q measured on HP4286A
- SRF measured on HP8753D



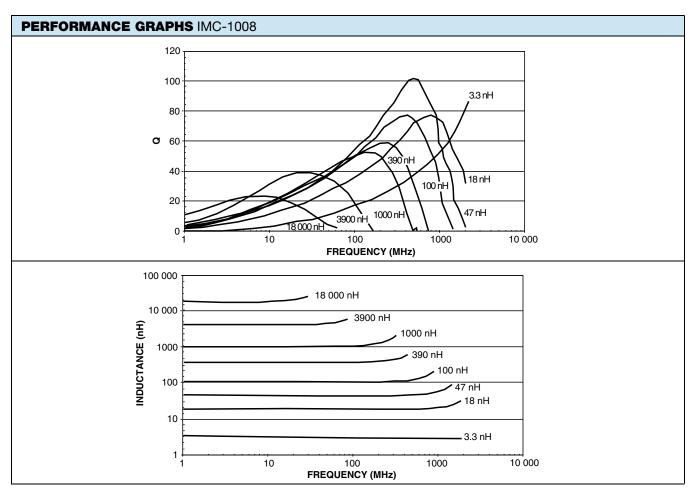
DESCRIPTION								
IMC-1008	10 nH	± 5 %	ER	e4 <sup>(1)</sup>				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD				

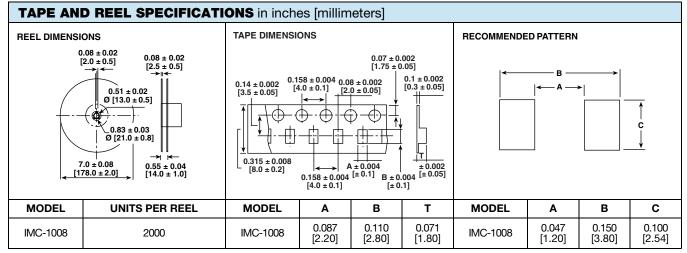
#### Note

(1) For parts within 3.3 nH to 910 nH please use e4 for JEDEC lead (Pb)-free standard. For parts within 1000 nH to 47 000 nH please use e3 for JEDEC lead (Pb)-free standard.











## **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.

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.

Vishay products are not designed for use in life-saving or life-sustaining applications or any application in which the failure of the Vishay product could result in personal injury or death unless specifically qualified in writing by Vishay. 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.