

# **High Frequency, Surface Mount Inductors**



STANDARD ELECTRICAL SPECIFICATION							
IND. (nH)	TOL.	(M	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 39 47 56 88 21 100 150 180 2270 330 470 560 680 750 820 910 1000 1200 1500 1800 2270 3300 4700 3300 4700 3300 4700 3300 4700 3300 4700 3300 4700 3300 4700 3300 4700 3300 4700 3300 4700 3300 4700 47	□₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	100 100 100 100 100 100 100 100 100 100	1000 1000 1000 1000 1000 500 350 350 350 350 100 100 100 100 100 100 100 100 100 1	5555666666666666666445555555550000000000	6000 5500 4300 2700 2700 2500 1800 1500 1100 1100 1100 950 880 800 730 650 430 380 380 380 380 380 380 380 280 290 130 480 480 480 480 480 480 480 48	0.06 0.06 0.08 0.08 0.010 0.10 0.10 0.10 0.110 0.12 0.18 0.22 0.33 0.45 0.90 1.15 0.22 2.33 1.30 2.23 4.30 4.50 4.50 4.50 6.50 14.00	1000 1000 1000 1000 1000 1000 1000 100

#### **FEATURES**

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



- 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**

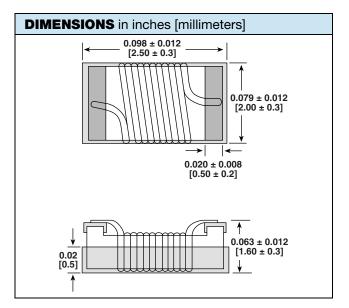
**Inductance Range:** 3.3 nH to 47 000 nH **Inductance and Tolerance:** 0.3 nH for 3.3 nH

± 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**

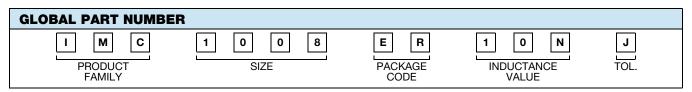
- Inductance and Q measured on HP4286A
- SRF measured on HP8753D



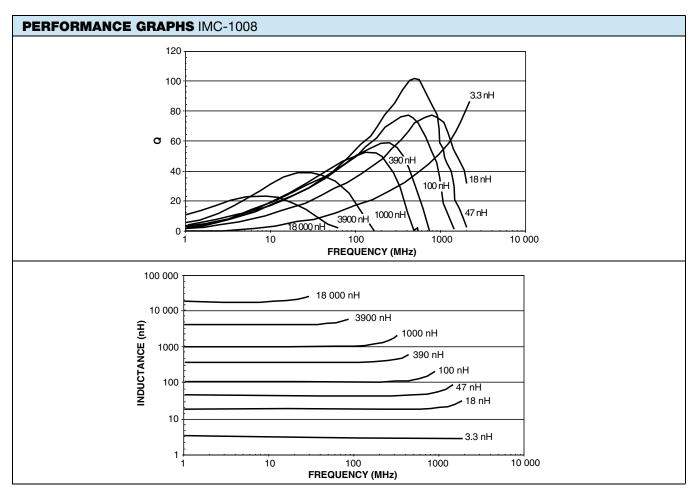
DESCRIPTION								
IMC-1008	10 nH	± 5 %	ER	e4 <sup>(1)</sup>				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD				

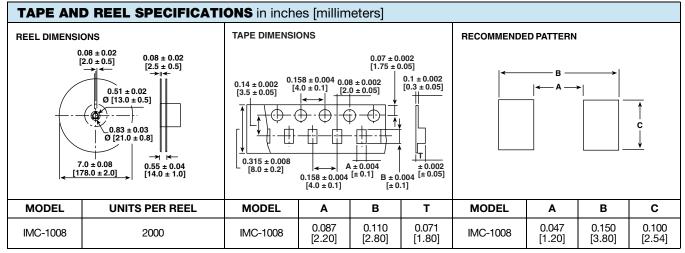
#### Note

(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.











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