IMC-1008

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Vishay Dale

High Frequency, Surface Mount Inductors



STANDARD ELECTRICAL SPECIFICATIONS							TIONS
IND. (nH)	TOL.		FREQ. Hz) Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
$\begin{array}{c} 3.3\\ 6.8\\ 8.10\\ 12\\ 15\\ 18\\ 27\\ 339\\ 47\\ 568\\ 2100\\ 125\\ 180\\ 2270\\ 3394\\ 4766\\ 82\\ 1000\\ 1250\\ 8200\\ 12000\\ 12000\\ 12000\\ 12000\\ 33000\\ 47000\\ 8200\\ 115\\ 0000\\ 115\\ 0000\\ 12000\\ 12000\\ 12000\\ 27000\\ 339000\\ 47000\\ 82000\\ 115\\ 0000\\ 27000\\ 339000\\ 47000\\ 82000\\ 120000\\ 339000\\ 47000\\ 82000\\ 120000\\ 339000\\ 47000\\ 82000\\ 120000\\ 339000\\ 47000\\ 39000\\ 47000\\ 12000\\ 12000\\ 12$	ᡏ ᡏᢌᢟᢌᡷᢌᡷᢌᡷᢌᡷᢌᡷᢌᡷᢌᡷᢌᡷᢌᡷᡷᡷᡷᡷᡷᡷᡷᡷᡷᡷᡷᡷᡷᡷᡷᡷᡷ	$\begin{array}{c} 000\\ 1000\\ $	$\begin{array}{c} 1000\\ 1000\\ 5550\\ 5500\\$	50 50 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60	$\begin{array}{c} 6000\\ 5500\\ 4300\\ 2700\\ 2700\\ 2500\\ 1500\\ 1500\\ 1500\\ 1500\\ 1500\\ 1100\\ 1500\\ 1100\\ 1500\\ 100\\ 1$	$\begin{array}{c} 0.066\\ 0.008\\ 0.000\\ 0.000\\ 0.0110\\ 0.0110\\ 0.0110\\ 0.0110\\ 0.000\\ 0.0110\\ 0.00$	$\begin{array}{c} 1000\\$

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 www.vishay.com/doc?99912

ELECTRICAL SPECIFICATIONS

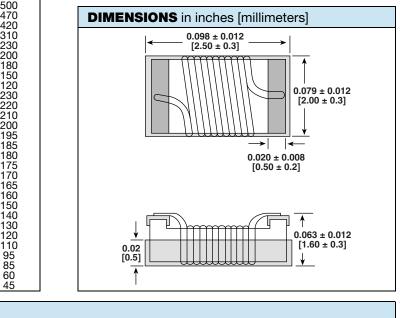
Inductance Range: 3.3 nH to 47 000 nH Inductance and Tolerance: 0.3 nH for 3.3 nH ± 5 % for 6.8 nH to 47 000 nH

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



DESCRIPTI	ON			
IMC-1008	10 nH	± 5 %	ER	e4 ⁽¹⁾
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.

GLOBAL PART NUMBE	R			
I M C PRODUCT FAMILY	1 0 0 8 SIZE	E R PACKAGE CODE	1 0 N INDUCTANCE VALUE	J TOL.
Revision: 08-Jan-15	1		Docum	ent Number: 34041



COMPLIANT

For technical questions, contact: magnetics@vishay.com

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PERFORMANCE GRAPHS IMC-1008 120 100 3.3 nH 80 σ 60 390 nH 40 18 nH 100 nH 20 47 nH 1000 nH 3900 nl 8 000 nH 0 100 10 1000 10 000 FREQUENCY (MHz) 100 000 - 18 000 nH 10 000 3900 nH INDUCTANCE (nH) 🖌 1000 nH 1000 390 nH 100 nH 100 • 47 nH 🖌 18 nH 10 3.3 nH 1 100 FREQUENCY (MHz) 10 1000 10 000 1

TAPE AND REEL SPECIFICATIONS in inches [millimeters]										
REEL DIMENSIO	ONS	TAPE DIMENSIONS				RECOMMENDED PATTERN				
$\begin{array}{c} 0.08 \pm 0.02 \\ [2.0 \pm 0.5] \\ 0.08 \pm 0.02 \\ [2.5 \pm 0.5] \\ 0.51 \pm 0.02 \\ 0 \ [13.0 \pm 0.5] \\ 0 \ [21.0 \pm 0.8] \\ 0 \ [21.0 \pm 0.8] \\ 0 \ [178.0 \pm 2.0] \\ \end{array}$		$\begin{array}{c c} 0.07 \pm 0.002 \\ \hline 0.14 \pm 0.002 \\ \hline 0.14 \pm 0.002 \\ \hline 0.158 \pm 0.004 \\ \hline 0.05 \\ \hline 0.14 \pm 0.002 \\ \hline 0.158 \pm 0.004 \\ \hline 0.05 \\ \hline 0.158 \pm 0.004 \\ \hline 10.05 \\$				$\begin{vmatrix} \bullet & \bullet \\ \bullet & \bullet \\ \bullet & \bullet \\ \hline & \bullet \\ \hline & \bullet \\ \hline & \bullet & \bullet \\ \hline \hline & \bullet \\ \hline & \bullet \\ \hline & \bullet \\ \hline \hline & \bullet \\ \hline \hline & \bullet \\ \hline & \bullet \\ \hline & \bullet \\ \hline \hline \hline & \bullet \\ \hline \hline \hline & \bullet \\ \hline \hline \hline \hline & \bullet \\ \hline $				
MODEL	UNITS PER REEL	MODEL	Α	В	Т	MODEL	Α	В	С	
IMC-1008	2000	IMC-1008	0.087 [2.20]	0.110 [2.80]	0.071 [1.80]	IMC-1008	0.047 [1.20]	0.150 [3.80]	0.100 [2.54]	

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