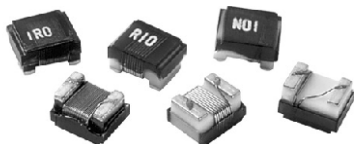


High Frequency, Surface Mount Inductors


RoHS
COMPLIANT

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

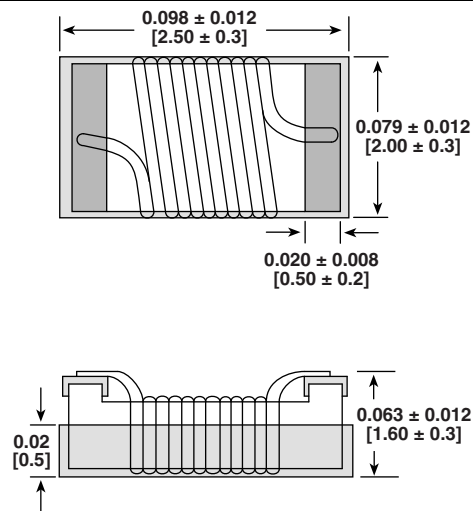
Core Material: Ceramic from 3.3 nH to 1000 nH
Ferrite from 1200 nH to 47 000 nH

TEST EQUIPMENT

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

STANDARD ELECTRICAL SPECIFICATIONS						
IND. (nH)	TOL.	TEST FREQ. (MHz)		Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)
		L	Q			
3.3	0.3 nH	100	1000	50	6000	0.06
6.8	5 %	100	1000	50	5500	0.06
8.2	5 %	100	1000	50	5500	0.06
10	5 %	100	1000	50	4300	0.08
12	5 %	100	500	60	3600	0.08
15	5 %	100	500	60	2700	0.08
18	5 %	100	350	60	2700	0.10
22	5 %	100	350	60	2500	0.10
27	5 %	100	350	60	1800	0.10
33	5 %	100	350	60	1700	0.10
39	5 %	100	350	60	1500	0.10
47	5 %	100	350	60	1500	0.10
56	5 %	100	350	60	1350	0.12
68	5 %	100	350	60	1300	0.15
82	5 %	100	350	60	1100	0.18
100	5 %	100	350	60	1100	0.18
120	5 %	25	100	45	950	0.20
150	5 %	25	100	45	880	0.22
180	5 %	25	100	45	800	0.33
220	5 %	25	100	45	730	0.45
270	5 %	25	100	45	650	0.75
330	5 %	25	100	45	570	0.90
390	5 %	25	100	45	530	1.06
470	5 %	25	100	45	480	1.17
560	5 %	25	100	45	430	1.50
680	5 %	25	100	45	380	2.06
750	5 %	25	100	45	360	2.20
820	5 %	25	100	45	350	2.30
910	5 %	25	100	45	330	3.18
1000	5 %	25	50	35	310	3.30
1200	5 %	7.96	7.96	20	280	1.30
1500	5 %	7.96	7.96	20	250	1.65
1800	5 %	7.96	7.96	20	200	2.20
2200	5 %	7.96	7.96	20	160	2.35
2700	5 %	7.96	7.96	20	130	2.60
3300	5 %	7.96	7.96	20	80	2.85
3900	5 %	7.96	7.96	20	50	4.00
4700	5 %	7.96	7.96	20	45	4.30
5600	5 %	7.96	7.96	20	42	2.60
6800	5 %	7.96	7.96	20	39	2.80
8200	5 %	7.96	7.96	20	36	3.05
10 000	5 %	2.52	2.52	15	33	3.50
12 000	5 %	2.52	2.52	15	30	3.60
15 000	5 %	2.52	2.52	15	26	4.00
18 000	5 %	2.52	2.52	15	24	4.50
22 000	5 %	2.52	2.52	15	22	5.00
27 000	5 %	2.52	2.52	15	21	6.00
33 000	5 %	2.52	2.52	15	20	6.50
39 000	5 %	2.52	2.52	15	18	8.50
47 000	5 %	2.52	2.52	15	17	14.00

DIMENSIONS in inches [millimeters]



DESCRIPTION

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

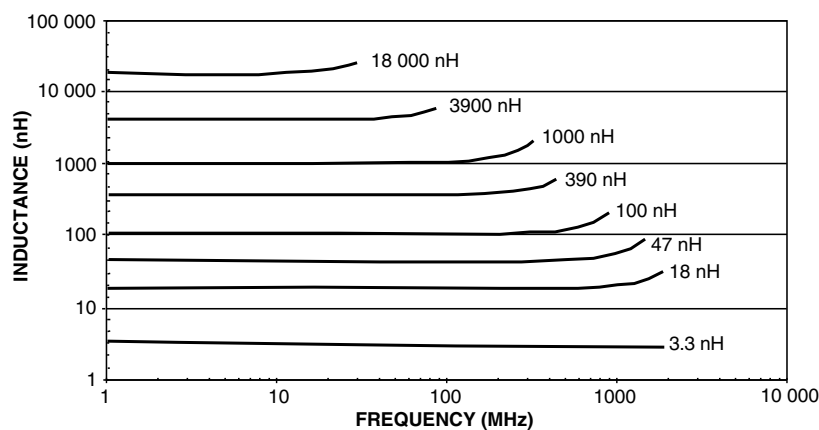
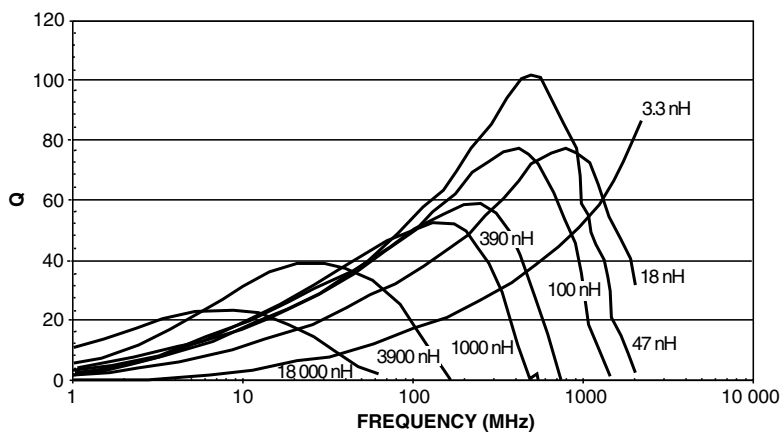
Note

(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.

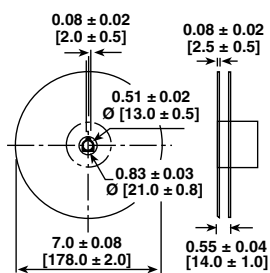
GLOBAL PART NUMBER

I	M	C	1	0	0	8	E	R	1	0	N	J
PRODUCT FAMILY			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.

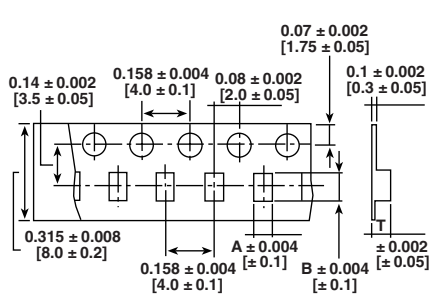
PERFORMANCE GRAPHS IMC-1008

**TAPE AND REEL SPECIFICATIONS** in inches [millimeters]

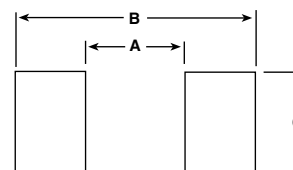
REEL DIMENSIONS



TAPE DIMENSIONS



RECOMMENDED PATTERN



MODEL	UNITS PER REEL	MODEL	A	B	T	MODEL	A	B	C
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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