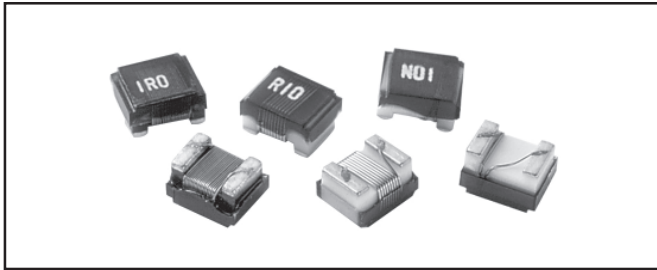


Inductors

High Frequency, Surface Mount**FEATURES**

- High self-resonant frequency values.
- High Q values at higher frequencies.
- Wirewound construction.
- Tape and reel packaging for automatic handling, 2000/reel.
- Compatible with vapor phase and infrared reflow soldering.

STANDARD ELECTRICAL SPECIFICATIONS

IND. (nH)	TOLERANCE	TEST FREQ. L (MHz)	Q MIN.	TEST FREQ. Q (MHz)	SELF- RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED DC CURRENT (mA)
3.3	0.25nH	100	50	1000	6000	0.06	600
6.8	± 5%	100	50	1000	5500	0.06	600
8.2	± 5%	100	50	1000	5500	0.06	600
10	± 5%	100	50	500	4300	0.06	600
12	± 5%	100	50	500	3600	0.08	600
15	± 5%	100	50	500	2700	0.08	600
18	± 5%	100	50	350	2700	0.08	600
22	± 5%	100	60	350	2500	0.10	600
27	± 5%	100	60	350	1800	0.10	600
33	± 5%	100	60	350	1700	0.10	500
39	± 5%	100	60	350	1500	0.12	500
47	± 5%	100	60	350	1500	0.12	500
56	± 5%	100	60	350	1350	0.15	500
68	± 5%	100	60	350	1300	0.18	500
82	± 5%	100	60	350	1100	0.22	500
100	± 5%	100	50	350	1100	0.24	500
120	± 5%	25	50	100	1000	0.28	500
150	± 5%	25	50	100	1000	0.36	500
180	± 5%	25	50	100	950	0.40	500
220	± 5%	25	50	100	850	0.53	500
270	± 5%	25	50	100	700	0.68	500
330	± 5%	25	50	100	600	0.82	500
390	± 5%	25	50	100	550	0.95	500
470	± 5%	25	45	100	500	1.10	400
560	± 5%	25	45	100	430	1.23	400
680	± 5%	25	45	100	380	2.35	300
820	± 5%	25	45	100	360	2.51	300
1000	± 5%	25	35	50	320	1.65	370
1200	± 5%	7.9	35	50	280	1.90	310
1500	± 5%	7.9	35	50	250	2.20	300
1800	± 5%	7.9	35	50	200	2.45	300
2200	± 5%	7.9	35	50	160	2.70	280
2700	± 5%	7.9	25	25	130	3.10	280
3300	± 5%	7.9	25	25	110	4.50	280

ELECTRICAL SPECIFICATIONS

Inductance Range: 3.3nH to 3300nH.

Inductance Tolerance:
0.25nH for 3.3nH.
± 5% for 8.2nH to 3300nH.

Operating Temperature:
- 40°C to 85°C.

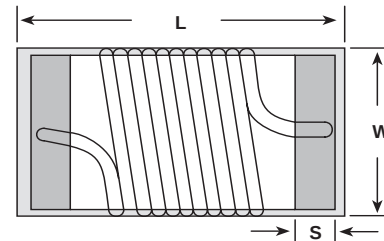
Core Material:
Non-magnetic (Alumina).

TEST EQUIPMENT

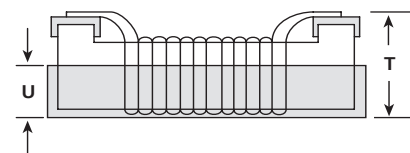
- Inductance and Q measured on HP4286A.
- SRF measured on HP8753B.

DIMENSIONAL CONFIGURATIONS

[Numbers in brackets indicate millimeters]



L	W	S
.098 ± .008	.079 ± .008	.020 ± .008
[2.50 ± 0.2]	[2.00 ± 0.2]	[0.50 ± 0.2]

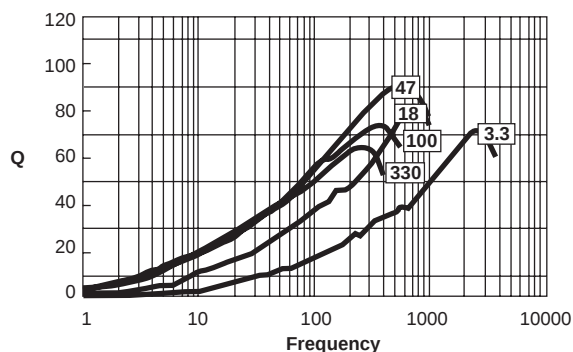


U	T
.02	.063 ± .008
[0.5]	[1.60 ± 0.2]

PERFORMANCE GRAPHS

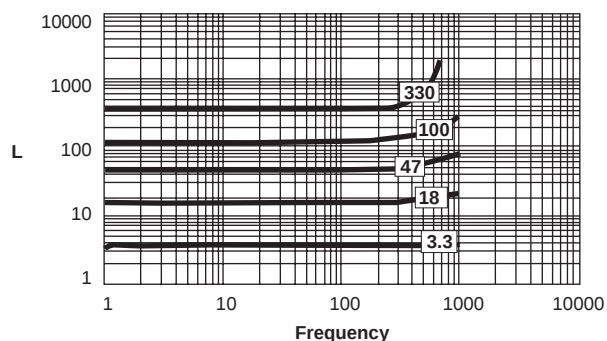
IMC-1008

Q vs Frequency Plot



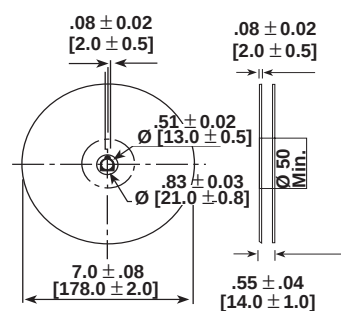
IMC-1008

L vs Frequency Plot



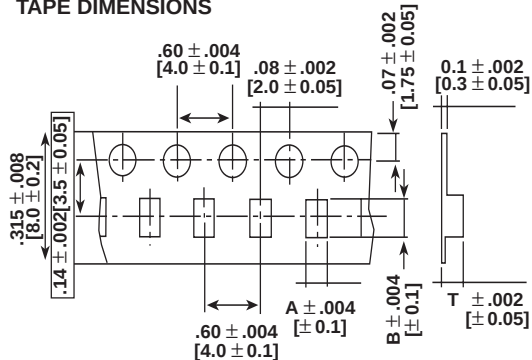
TAPE AND REEL SPECIFICATIONS [Numbers in brackets indicate millimeters]

REEL DIMENSIONS



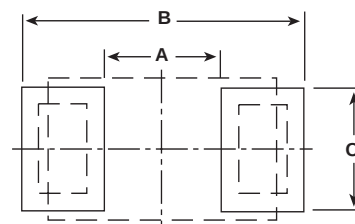
MODEL	UNITS PER REEL
IMC-1008	2000

TAPE DIMENSIONS



MODEL	A	B	T
IMC-1008	.091 [2.30]	.110 [2.80]	.079 [2.00]

RECOMMENDED PATTERN



MODEL	A	B	C
IMC-1008	.047 [1.20]	.138 - .157 [3.5 - 4.0]	.071 [1.80]

NOTE: Blank length: 13" [330.0mm] minimum for loading, 6.3" [160mm] minimum for unloading.

HOW TO ORDER

IMC-1008
MODEL

10nH
INDUCTANCE
VALUE

± 5%
INDUCTANCE TOLERANCE