



Inductors

High Frequency, Laser Spiral, Coated, Surface Mount



FEATURES

- Small size.
- High Q.
- No polarity considerations.
- High SRF.

APPLICATIONS

- High frequency (up TO 6GHz).
- Portable communication devices.

MATERIAL SPECIFICATIONS

Core Material: Ceramic.

PACKAGING

Paper tape and reel per EIA 481-1. 10,000 pieces per reel.

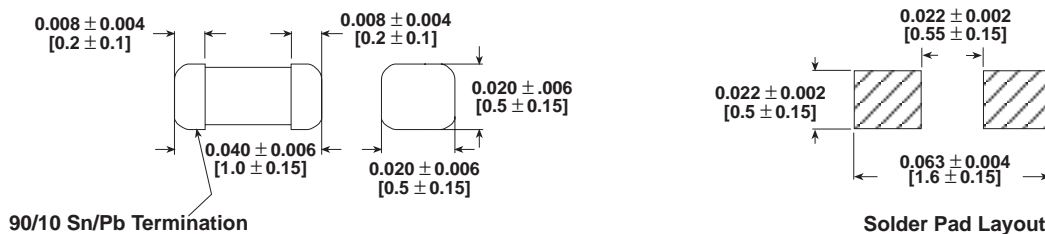
ELECTRICAL SPECIFICATIONS

Inductance Tolerance: 1.0nH to 5.6nH \pm 0.3nH.
6.8nH to 47nH \pm 5%.

Temperature Rating: - 40°C to + 85°C.

STANDARD ELECTRICAL SPECIFICATIONS							
L @ 100MHz (nH)	L TOLERANCE	Q MIN. @ 100MHz	Q MIN. @ 800MHz	TYP. Q @ 1.8GHz	MIN. SRF (MHz)	DCR MAX. W	MAX. RATED I (mA)
1.0	\pm 0.3nH, 30%	8	21	75	6000	0.05	400
1.2	\pm 0.3nH, 25%	8	21	70	6000	0.06	400
1.5	\pm 0.3nH, 20%	8	21	65	6000	0.07	400
1.8	\pm 0.3nH, 17%	8	21	75	6000	0.08	400
2.2	\pm 0.3nH, 14%	8	21	60	6000	0.09	400
2.7	\pm 0.3nH, 11%	8	21	58	5500	0.10	400
3.3	\pm 0.3nH, 9%	8	21	58	5500	0.12	400
3.9	\pm 0.3nH, 8%	8	20	55	5200	0.15	360
4.7	\pm 0.3nH, 6%	8	20	55	4800	0.17	360
5.6	\pm 0.3nH, 5%	8	20	50	4600	0.19	340
6.8	\pm 5%	8	19	50	4000	0.30	320
8.2	\pm 5%	8	19	50	3500	0.35	320
10.0	\pm 5%	8	19	45	2800	0.41	320
12.0	\pm 5%	8	19	40	2800	0.45	320
15.0	\pm 5%	8	19	40	2500	0.60	240
18.0	\pm 5%	8	19	35	2200	0.70	240
22.0	\pm 5%	8	19	30	2000	0.80	200
27.0	\pm 5%	8	19	30	1800	1.20	200
33.0	\pm 5%	8	19	25	1800	1.40	170
39.0	\pm 5%	8	19	20	1800	1.70	150
47.0	\pm 5%	8	19	18	1800	2.10	140

DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]

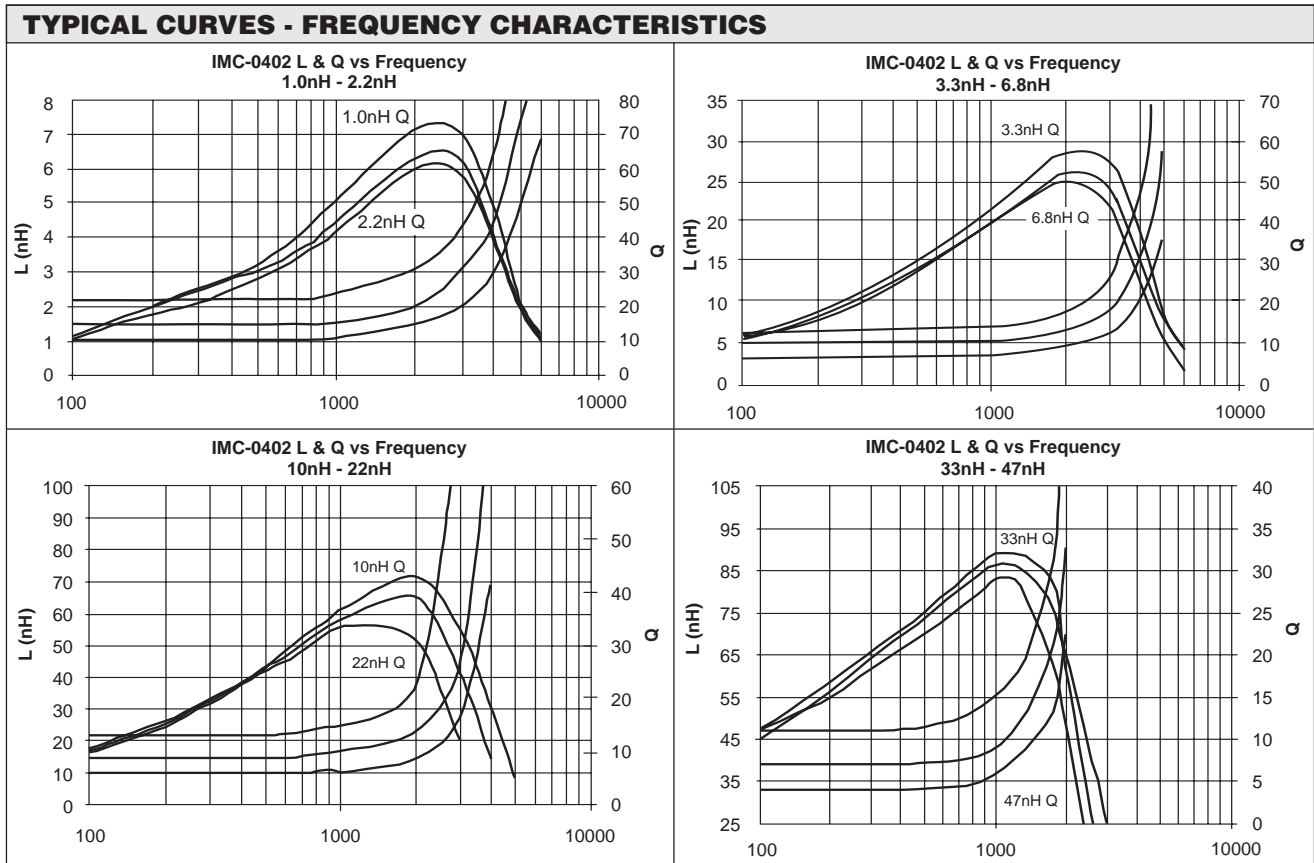


HOW TO ORDER

IMC-0402
MODEL

3.3NH
INDUCTANCE

\pm 9%
TOLERANCE



TAPE AND REEL SPECIFICATION 0402 SIZE PER EIA-481-1

A_0	0.028 ± 0.004 [0.71 ± 0.1]
B_0	0.048 ± 0.004 [1.21 ± 0.1]
D_0	$0.059 + 0.005/-0.000$ [1.5]
E_1	0.069 ± 0.004 [1.75 ± 0.1]
F	0.138 ± 0.002 [3.50 ± 0.05]
T_1	0.028 Max. [0.7 Max.]
P_0	0.157 ± 0.004 [4.00 ± 0.1]
P_1	0.079 ± 0.004 [2.00 ± 0.1]
P_2	0.079 ± 0.002 [2.00 ± 0.05]
W	0.327 Max. [8.3 Max.]
T_2	0.039 Max. [1.0 Max.]
A	7.000 ± 0.078 [178 ± 2.0]
C	0.512 [13]
W_1	$0.331 + 0.059/-0.000$ [8.0]
W_2	0.567 Max. [14.4]
N	1.968 Min. [50 Min.]

[Numbers in brackets indicate millimeters]