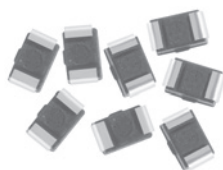


Inductors

High Frequency, Surface Mount, Molded



FEATURES

- High self-resonant frequency values.
- High Q values at higher frequencies.
- Molded construction provides superior strength and moisture resistance.
- Wirewound construction.
- Tape and reel packaging for automatic handling, 3,000/reel, EIA481.
- Compatible with vapor phase and infrared reflow soldering.

STANDARD ELECTRICAL SPECIFICATIONS

IND. (nH)	TOL.	TEST FREQ. L & Q (MHz)	Q MIN.	Q TYPICAL			SELF- RESONANT FREQ. MIN. (MHz)	DCR ± 30% (Ohms)	RATED DC CURRENT (mA)
				100 MHz	800 MHz	1.8 GHz			
3.9	± 20%	100	6	20	58	90	6000	0.08	540
4.7	± 20%	100	6	18	60	100	6000	0.08	540
5.6	± 20%	100	6	20	60	105	5500	0.10	540
6.8	± 10%, ± 20%	100	8	20	60	100	5500	0.12	540
8.2	± 10%, ± 20%	100	8	22	65	110	4700	0.13	540
10	± 10%	100	10	22	65	110	3300	0.14	540
12	± 10%	100	10	22	65	105	3300	0.18	535
15	± 10%	100	12	23	70	100	3000	0.18	520
18	± 10%	100	12	25	75	95	3000	0.22	480
22	± 10%	100	15	25	75	80	2600	0.22	465
27	± 10%	100	15	25	75	—	2500	0.26	455
33	± 5%, ± 10%	100	15	28	80	—	2050	0.30	395
39	± 5%, ± 10%	100	15	28	70	—	2000	0.31	390
47	± 5%, ± 10%	100	15	28	70	—	1650	0.35	385
56	± 5%, ± 10%	100	15	28	60	—	1550	0.39	360
68	± 5%, ± 10%	100	15	28	—	—	1450	0.44	340
82	± 5%, ± 10%	100	15	28	—	—	1100	0.48	330
100	± 5%, ± 10%	25.2	8	25	—	—	800	0.66	285
120	± 5%, ± 10%	25.2	8	24	—	—	600	0.76	275
150	± 5%, ± 10%	25.2	10	25	—	—	600	1.13	230
180	± 5%, ± 10%	25.2	10	25	—	—	600	1.24	195
220	± 5%, ± 10%	25.2	10	25	—	—	500	1.41	170
270	± 5%, ± 10%	25.2	10	25	—	—	300	1.50	165
330	± 5%, ± 10%	25.2	10	20	—	—	200	1.66	160
390	± 5%, ± 10%	25.2	10	20	—	—	150	1.82	150
470	± 5%, ± 10%	25.2	10	18	—	—	150	1.97	145
560	± 5%, ± 10%	25.2	10	15	—	—	100	2.07	140
680	± 5%, ± 10%	25.2	10	—	—	—	100	2.32	130
820	± 5%, ± 10%	25.2	10	—	—	—	80	2.60	125
1000	± 5%, ± 10%	7.96	8	—	—	—	80	2.98	120

NOTE: Tighter tolerance product may be substituted based on availability.

ELECTRICAL SPECIFICATIONS

Inductance Range: 3.9nH to 1,000nH.

Inductance Tolerance: ± 20% for 3.9nH to 8.2nH.

± 10% for 6.8nH to 1,000nH.

± 5% for 33nH to 1,000nH.

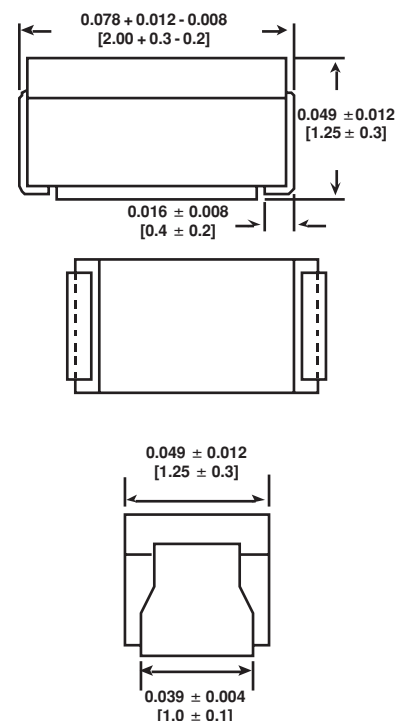
Temperature Range: - 40°C to +105°C (no load). - 40°C to + 85°C (at full rated current).

Core Material: Non-magnetic.

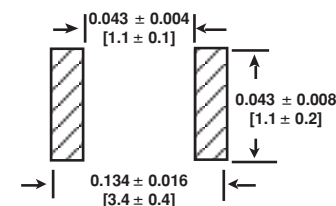
TEST EQUIPMENT

- Inductance and Q measured on HP4191A.
- SRF measured on HP8753B.

DIMENSIONS in inches [millimeters]



Recommended Pad Layout



ORDERING INFORMATION

IMC-0805 MODEL	10nH INDUCTANCE VALUE	± 10% INDUCTANCE TOLERANCE
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SAP PART NUMBERING GUIDELINES (INTERNAL)

I	M	C	0	8	0	5	R	K	1	0	N	K
PRODUCT FAMILY			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.

See the end of this data book for conversion tables