Surface Mount, Molded Inductors

STANDARD ELECTRICAL SPECIFICATIONS

IND. (µH)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED* DC CURRENT (mA)
1.0	± 10 %	10	7.96	95.0	0.030	1800
1.2	± 10 %	10	7.96	70.0	0.035	1700
1.5	± 10 %	10	7.96	55.0	0.040	1600
1.8	± 10 %	10	7.96	47.0	0.050	1400
2.2	± 10 %	10	7.96	42.0	0.060	1300
2.7	± 10 %	10	7.96	37.0	0.070	1200
3.3	± 10 %	10	7.96	34.0	0.080	1120
3.9	± 10 %	10	7.96	32.0	0.090	1050
4.7	± 10 %	10	7.96	29.0	0.110	950
5.6	± 10 %	10	7.96	26.0	0.130	880
6.8	± 10 %	10	7.96	24.0	0.150	810
8.2	± 10 %	10	7.96	22.0	0.180	750
10	± 10 %	10	2.52	19.0	0.210	690
12	± 10 %	10	2.52	17.0	0.250	630
15	± 10 %	10	2.52	16.0	0.300	580
18	± 10 %	10	2.52	14.0	0.360	530
22	± 10 %	10	2.52	13.0	0.430	480
27	± 10 %	10	2.52	11.5	0.520	440
33	± 10 %	10	2.52	10.5	0.620	400
39	± 10 %	10	2.52	9.5	0.720	370
47	± 10 %	10	2.52	8.5	0.850	340
56	± 10 %	10	2.52	7.8	1.00	310
68	± 10 %	10	2.52	7.0	1.20	290
82	± 10 %	10	2.52	6.4	1.40	270
100	± 10 %	20	0.796	6.0	1.60	250
120	± 10 %	20	0.796	5.4	1.90	230
150	± 10 %	20	0.796	4.8	2.20	210
180	± 10 %	20	0.796	4.4	2.80	190
220	± 10 %	20	0.796	3.9	3.40	170
270	± 10 %	20	0.796	3.6	4.20	155
330	± 10 %	20	0.796	3.2	4.90	140
390	± 10 %	20	0.796	2.9	5.80	130
470	± 10 %	20	0.796	2.6	7.00	120
560	± 10 %	20	0.796	2.4	8.50	110
680	± 10 %	20	0.796	2.2	10.0	100
820	± 10 %	20	0.796	2.0	13.0	90
1000	± 10 %	20	0.252	1.8	15.0	85
1200	± 5 %	30	0.252	1.5	17.0	75
1500	± 5 %	30	0.252	1.4	20.0	70
1800	± 5 %	30	0.252	1.3	30.0	60
2200	± 5 %	30	0.252	1.2	35.0	55
2700	± 5 %	30	0.252	1.1	55.0	45
3300	± 5 %	30	0.252	1.0	60.0	40
3900	± 5 %	30	0.252	1.0	70.0	38
4700	± 5 %	30	0.252	0.9	78.0	36
5600	± 5 %	30	0.252	0.8	85.0	33
6800	± 5 %	30	0.252	0.7	110.0	30
8200	± 5 %	30	0.252	0.6	125.0	28
10000	± 5 %	20	0.0796	0.5	150.0	25

*Rated DC Current based on the maximum temperature rise, not to exceed 40 °C at + 85 °C ambient.

FEATURES

- Molded construction provides superior strength and moisture resistance
- Tape and reel packaging for automatic handling, 1000/reel, EIA-481
- Compatible with vapor phase infrared and wave soldering methods, (100 % tin plating)
- Lead (Pb)-free terminations and RoHS compliant

Pb-free

RoHS COMPLIANT

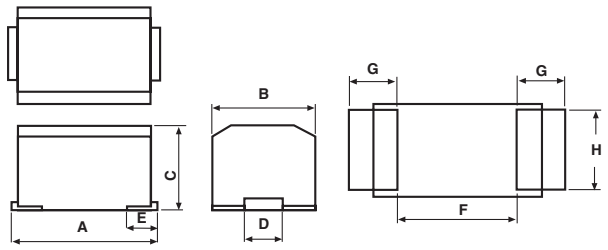
ELECTRICAL SPECIFICATIONS

Inductance: 1.0 uH to 10 000 uH
Inductance Tolerance: ± 10 %, ± 5 %
Operating Temperature: - 25 °C to 85 °C
Storage Temperature: - 40 °C to + 100 °C

TEST EQUIPMENT

L & Q: H/P 4191
SRF: H/P 3577
DCR: H/P 34401

DIMENSIONS in inches [millimeters]



A	B	C	D
0.221 ± 0.012 [5.6 ± 0.3]	0.197 ± 0.012 [5.0 ± 0.3]	0.197 ± 0.012 [5.0 ± 0.3]	0.083 ± 0.001 [2.1 ± 0.2]
E	**F**	**G**	**H**
0.051 ± 0.001 [1.3 ± 0.2]	0.1182 [3.0]	0.1024 [2.6]	0.1773 [4.5]

EIA PART MARKING

- Inductance Value

DESCRIPTION

IMC-2220	22 µH	± 10 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	M	C	2	2	2	0	E	R	2	2	0	K
MODEL			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL

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