

Surface Mount, Molded Inductor



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)
0.010	± 20 %	30	50.0	1000	0.13	734
0.012	± 20 %	30	50.0	1000	0.14	707
0.015	± 20 %	30	50.0	1000	0.16	661
0.018	± 20 %	30	50.0	1000	0.18	624
0.022	± 20 %	30	50.0	1000	0.20	592
0.027	± 20 %	30	50.0	1000	0.22	564
0.033	± 20 %	30	50.0	1000	0.24	540
0.039	± 20 %	30	50.0	1000	0.27	530
0.047	± 20 %	30	50.0	1000	0.30	483
0.056	± 20 %	30	50.0	1000	0.33	470
0.068	± 20 %	30	50.0	1000	0.36	450
0.082	± 20 %	30	50.0	900	0.40	450
0.10	± 20 %	30	50.0	700	0.44	450
0.12	± 20 %	30	25.2	500	0.22	584
0.15	± 20 %	30	25.2	450	0.25	548
0.18	± 20 %	30	25.2	400	0.28	518
0.22	± 20 %	30	25.2	350	0.32	484
0.27	± 20 %	30	25.2	320	0.36	456
0.33	± 20 %	30	25.2	300	0.40	453
0.39	± 20 %	30	25.2	250	0.45	450
0.47	± 20 %	30	25.2	220	0.50	450
0.56	± 20 %	30	25.2	180	0.55	450
0.68	± 20 %	30	25.2	160	0.60	450
0.82	± 20 %	30	25.2	140	0.67	450
1.0	± 10 %	30	7.96	120	0.70	400
1.2	± 10 %	30	7.96	100	0.75	390
1.5	± 10 %	30	7.96	85.0	0.85	370
1.8	± 10 %	30	7.96	80.0	0.90	350
2.2	± 10 %	30	7.96	75.0	1.0	320
2.7	± 10 %	30	7.96	70.0	1.1	290
3.3	± 10 %	30	7.96	60.0	1.2	260
3.9	± 10 %	30	7.96	55.0	1.3	250
4.7	± 10 %	30	7.96	50.0	1.5	224
5.6	± 10 %	30	7.96	45.0	1.6	217
6.8	± 10 %	30	7.96	40.0	1.8	204
8.2	± 10 %	30	7.96	38.0	2.0	194
10.0	± 10 %	30	2.52	33.0	2.1	189
12.0	± 10 %	30	2.52	30.0	2.5	173
15.0	± 10 %	30	2.52	21.0	2.8	164
18.0	± 10 %	30	2.52	20.0	3.3	151
22.0	± 10 %	30	2.52	19.0	3.7	145
27.0	± 10 %	30	2.52	18.0	5.0	122
33.0	± 10 %	30	2.52	16.0	6.0	112
39.0	± 10 %	30	2.52	15.0	7.0	104
47.0	± 10 %	30	2.52	14.0	9.0	91
56.0	± 10 %	30	2.52	12.0	10.0	87
68.0	± 10 %	30	2.52	11.0	11.0	83
82.0	± 10 %	30	2.52	10.0	12.0	79
100.0	± 10 %	20	0.796	9.0	14.0	73
120.0	± 10 %	15	0.796	8.0	11.0	70
150.0	± 10 %	15	0.796	6.5	15.0	65
180.0	± 10 %	15	0.796	6.0	17.0	60
220.0	± 10 %	15	0.796	6.0	21.0	50

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

FEATURES

- Printed marking
- Compatible with vapor phase and infrared reflow soldering
- Molded construction provides superior strength and moisture resistance
- Tape and reel packaging for automatic handling, 2000/reel, EIA 481
- 100 % lead (Pb)-free and RoHS compliant



RoHS
COMPLIANT

ELECTRICAL SPECIFICATIONS

Inductance Range: 0.01 μH to 220 μH

Inductance Tolerance: ± 20 % for 0.01 μH to 0.82 μH ± 10 % for 1.0 μH to 220 μH standard. Special tolerances available

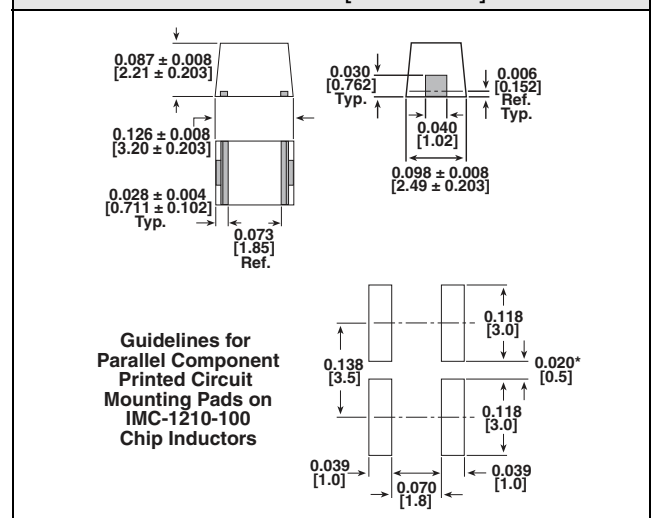
Temperature Range: - 55 °C to + 125 °C

Coilform Material: Non-magnetic for 0.01 μH to 0.10 μH Powdered Iron for 0.12 μH to 100 μH. Ferrite for 120 μH through 220 μH

TEST EQUIPMENT

- H/P 4342A Q meter with Vishay Dale test fixture or equivalent
- H/P 4191A RF Impedance Analyzer (for SRF measurements)
- Wheatstone bridge

DIMENSIONS in inches [millimeters]



*Recommended spacing between components

PART MARKING

- Vishay Dale
- Inductance value
- Date code

DESCRIPTION				
IMC-1210 MODEL	10 μH INDUCTANCE VALUE	± 10 % INDUCTANCE TOLERANCE	ER PACKAGE CODE	e3 JEDEC LEAD (Pb)FREE STANDARD
GLOBAL PART NUMBER				
I	M	C	1 2 1 0	E R 1 0 0 K
PRODUCT FAMILY			SIZE	PACKAGE CODE
			INDUCTANCE VALUE	TOL.



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