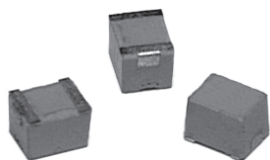


Surface Mount, Molded Inductor



STANDARD ELECTRICAL SPECIFICATIONS

IND. (μ H)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF- RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED* DC CURRENT (mA)
0.010	$\pm 20\%$	30	50.0	1000.0	0.13	734
0.012	$\pm 20\%$	30	50.0	1000.0	0.14	707
0.015	$\pm 20\%$	30	50.0	1000.0	0.16	661
0.018	$\pm 20\%$	30	50.0	1000.0	0.18	624
0.022	$\pm 20\%$	30	50.0	1000.0	0.20	592
0.027	$\pm 20\%$	30	50.0	1000.0	0.22	564
0.033	$\pm 20\%$	30	50.0	1000.0	0.24	540
0.039	$\pm 20\%$	30	50.0	1000.0	0.27	530
0.047	$\pm 20\%$	30	50.0	1000.0	0.30	483
0.056	$\pm 20\%$	30	50.0	1000.0	0.33	470
0.068	$\pm 20\%$	30	50.0	1000.0	0.36	450
0.082	$\pm 20\%$	30	50.0	900.0	0.40	450
0.10	$\pm 20\%$	30	50.0	700.0	0.44	450
0.12	$\pm 20\%$	30	25.2	500.0	0.22	584
0.15	$\pm 20\%$	30	25.2	450.0	0.25	548
0.18	$\pm 20\%$	30	25.2	400.0	0.28	518
0.22	$\pm 20\%$	30	25.2	350.0	0.32	484
0.27	$\pm 20\%$	30	25.2	320.0	0.36	456
0.33	$\pm 20\%$	30	25.2	300.0	0.40	453
0.39	$\pm 20\%$	30	25.2	250.0	0.45	450
0.47	$\pm 20\%$	30	25.2	220.0	0.50	450
0.56	$\pm 20\%$	30	25.2	180.0	0.55	450
0.68	$\pm 20\%$	30	25.2	160.0	0.60	450
0.82	$\pm 20\%$	30	25.2	140.0	0.67	450
1.0	$\pm 10\%$	30	7.96	120.0	0.70	400
1.2	$\pm 10\%$	30	7.96	100.0	0.75	390
1.5	$\pm 10\%$	30	7.96	85.0	0.85	370
1.8	$\pm 10\%$	30	7.96	80.0	0.90	350
2.2	$\pm 10\%$	30	7.96	75.0	1.0	320
2.7	$\pm 10\%$	30	7.96	70.0	1.1	290
3.3	$\pm 10\%$	30	7.96	60.0	1.2	260
3.9	$\pm 10\%$	30	7.96	55.0	1.3	250
4.7	$\pm 10\%$	30	7.96	50.0	1.5	224
5.6	$\pm 10\%$	30	7.96	45.0	1.6	217
6.8	$\pm 10\%$	30	7.96	40.0	1.8	204
8.2	$\pm 10\%$	30	7.96	38.0	2.0	194
10.0	$\pm 10\%$	30	2.52	33.0	2.1	189
12.0	$\pm 10\%$	30	2.52	30.0	2.5	173
15.0	$\pm 10\%$	30	2.52	21.0	2.8	164
18.0	$\pm 10\%$	30	2.52	20.0	3.3	151
22.0	$\pm 10\%$	30	2.52	19.0	3.7	145
27.0	$\pm 10\%$	30	2.52	18.0	5.0	122
33.0	$\pm 10\%$	30	2.52	16.0	6.0	112
39.0	$\pm 10\%$	30	2.52	15.0	7.0	104
47.0	$\pm 10\%$	30	2.52	14.0	9.0	91
56.0	$\pm 10\%$	30	2.52	12.0	10.0	87
68.0	$\pm 10\%$	30	2.52	11.0	11.0	83
82.0	$\pm 10\%$	30	2.52	10.0	12.0	79
100.0	$\pm 10\%$	20	0.796	9.0	14.0	73
120.0	$\pm 10\%$	15	0.796	8.0	11.0	70
150.0	$\pm 10\%$	15	0.796	6.5	15.0	65
180.0	$\pm 10\%$	15	0.796	6.0	17.0	60
220.0	$\pm 10\%$	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.

ELECTRICAL SPECIFICATIONS

Inductance Range: 0.01 μ H to 220 μ H.

Inductance Tolerance: $\pm 20\%$ for .01 μ H to 0.82 μ H. $\pm 10\%$ for 1.0 μ H to 220 μ H standard. Special tolerances available.

Temperature Range: - 55°C to + 125°C.

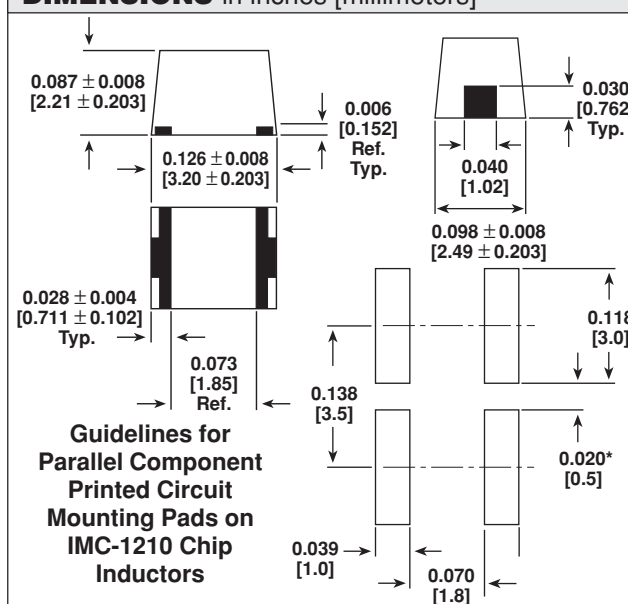
Coilform Material: Non-magnetic for .01 μ H to 0.10 μ H.

Powdered Iron for 0.12 μ H to 100 μ H. Ferrite for 120 μ H through 220 μ H.

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 μ H INDUCTANCE VALUE	$\pm 10\%$ INDUCTANCE TOLERANCE
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SAP PART NUMBERING GUIDELINES (INTERNAL)

I M C
PRODUCT FAMILY

1 2 1 0
SIZE

S Y
PACKAGE
CODE

1 0 0
INDUCTANCE
VALUE

K
TOL.

See the end of this data book for conversion tables