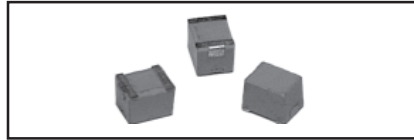




Inductors

Surface Mount, Molded



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.

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)
.010	$\pm 20\%$	30	50.0	1000.0	.13	734
.012	$\pm 20\%$	30	50.0	1000.0	.14	707
.015	$\pm 20\%$	30	50.0	1000.0	.16	661
.018	$\pm 20\%$	30	50.0	1000.0	.18	624
.022	$\pm 20\%$	30	50.0	1000.0	.20	592
.027	$\pm 20\%$	30	50.0	1000.0	.22	564
.033	$\pm 20\%$	30	50.0	1000.0	.24	540
.039	$\pm 20\%$	30	50.0	1000.0	.27	530
.047	$\pm 20\%$	30	50.0	1000.0	.30	483
.056	$\pm 20\%$	30	50.0	1000.0	.33	470
.068	$\pm 20\%$	30	50.0	1000.0	.36	450
.082	$\pm 20\%$	30	50.0	900.0	.40	450
.100	$\pm 20\%$	30	50.0	700.0	.44	450
.12	$\pm 20\%$	30	25.2	500.0	.22	584
.15	$\pm 20\%$	30	25.2	450.0	.25	548
.18	$\pm 20\%$	30	25.2	400.0	.28	518
.22	$\pm 20\%$	30	25.2	350.0	.32	484
.27	$\pm 20\%$	30	25.2	320.0	.36	456
.33	$\pm 20\%$	30	25.2	300.0	.40	453
.39	$\pm 20\%$	30	25.2	250.0	.45	450
.47	$\pm 20\%$	30	25.2	220.0	.50	450
.56	$\pm 20\%$	30	25.2	180.0	.55	450
.68	$\pm 20\%$	30	25.2	160.0	.60	450
.82	$\pm 20\%$	30	25.2	140.0	.67	450
1.0	$\pm 10\%$	30	7.96	120.0	.70	400
1.2	$\pm 10\%$	30	7.96	100.0	.75	390
1.5	$\pm 10\%$	30	7.96	85.0	.85	370
1.8	$\pm 10\%$	30	7.96	80.0	.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	.796	9.0	14.0	73
120.0	$\pm 10\%$	15	.796	8.0	11.0	70
150.0	$\pm 10\%$	15	.796	6.5	15.0	65
180.0	$\pm 10\%$	15	.796	6.0	17.0	60
220.0	$\pm 10\%$	15	.796	6.0	21.0	50

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

ELECTRICAL SPECIFICATIONS

Inductance Range: .01 μ H to 220 μ H.

Inductance Tolerance: $\pm 20\%$ for .01 μ H to .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.

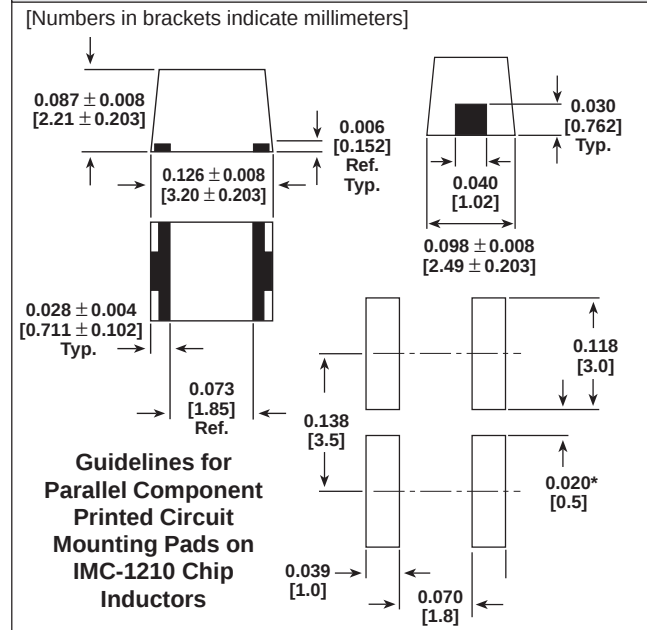
Coilform Material: Non-magnetic for .01 μ H to .10 μ H.

Powdered Iron for .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.

DIMENSIONAL CONFIGURATIONS



*Recommended spacing between components.

PART MARKING

- Vishay Dale
- Inductance value
- Date code

HOW TO ORDER

IMC-1210 MODEL	10 μ H INDUCTANCE VALUE	$\pm 10\%$ INDUCTANCE TOLERANCE
-------------------	-----------------------------------	---------------------------------------