

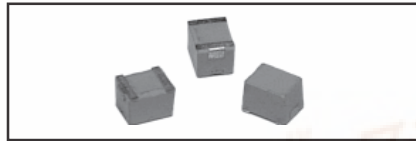


Model IMC-1210

Vishay Dale

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. (μH)	TOL.	Q MIN.	TEST FREQ. L & Q (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAX. (Ohms)	RATED* DC CURRENT (mA)
.010	±20%	30	50.0	1000.0	.13	734
.012	±20%	30	50.0	1000.0	.14	707
.015	±20%	30	50.0	1000.0	.16	661
.018	±20%	30	50.0	1000.0	.18	624
.022	±20%	30	50.0	1000.0	.20	592
.027	±20%	30	50.0	1000.0	.22	564
.033	±20%	30	50.0	1000.0	.24	540
.039	±20%	30	50.0	1000.0	.27	530
.047	±20%	30	50.0	1000.0	.30	483
.056	±20%	30	50.0	1000.0	.33	470
.068	±20%	30	50.0	1000.0	.36	450
.082	±20%	30	50.0	900.0	.40	450
.100	±20%	30	50.0	700.0	.44	450
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.12	±20%	30	25.2	500.0	.22	584
.15	±20%	30	25.2	450.0	.25	548
.18	±20%	30	25.2	400.0	.28	518
.22	±20%	30	25.2	350.0	.32	484
.27	±20%	30	25.2	320.0	.36	456
.33	±20%	30	25.2	300.0	.40	453
.39	±20%	30	25.2	250.0	.45	450
.47	±20%	30	25.2	220.0	.50	450
.56	±20%	30	25.2	180.0	.55	450
.68	±20%	30	25.2	160.0	.60	450
.82	±20%	30	25.2	140.0	.67	450
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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	.85	370
1.8	±10%	30	7.96	80.0	.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
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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
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100.0	±10%	20	.796	9.0	14.0	73
120.0	±10%	15	.796	8.0	11.0	70
150.0	±10%	15	.796	6.5	15.0	65
180.0	±10%	15	.796	6.0	17.0	60
220.0	±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: .01μH to 220μH.

Inductance Tolerance: ±20% for .01μH to .82μH. ±10% for 1.0μH to 220μH standard. Special tolerances available.

Temperature Range: - 55°C to + 125°C.

Coilform Material: Non-magnetic for .01μH to .10μH.

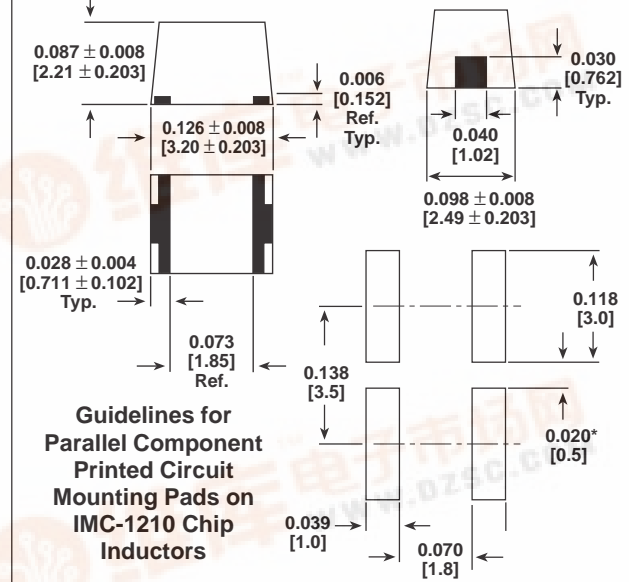
Powdered Iron for .12μH to 100μH. Ferrite for 120μH through 220μH.

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

[Numbers in brackets indicate millimeters]



*Recommended spacing between components.

PART MARKING

- Vishay Dale
- Inductance value
- Date code

HOW TO ORDER

IMC-1210	10μH	±10%
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE