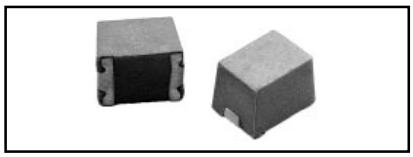
Model ISC-1812

Vishay Dale

Inductors

Surface Mount, Molded, Shielded



FEATURES

- Molded construction provides superior strength and moisture resistance.
- Tape and reel packaging for automatic handling, 2000/reel, EIA 481.
- Compatible with vapor phase and infrared reflow soldering.
- Shielded construction minimizes coupling to other components.

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)
.10	± 20%	30	25.2	460.0	.23	552
.12	± 20%	30	25.2	400.0	.26	519
.15	± 20%	30	25.2	390.0	.29	491
.18	± 20%	30	25.2	350.0	.32	468
.22	± 20%	30	25.2	310.0	.36	441
.27	± 20%	30	25.2	280.0	.40	418
.33	± 20%	30	25.2	240.0	.45	394
.39	± 20%	30	25.2	215.0	.60	342
.47	± 20%	30	25.2	205.0	.75	306
.56	± 20%	30	25.2	195.0	.80	296
.68	± 20%	30	25.2	165.0	.95	271
.82	± 20%	30	25.2	155.0	1.20	242
1.0	± 10%	30	7.96	140.0	.35	447
1.2	± 10%	30	7.96	120.0	.38	429
1.5	± 10%	30	7.96	100.0	.40	418
1.8	± 10%	30	7.96	90.0	.43	403
2.2	± 10%	30	7.96	80.0	.46	390
2.7	± 10%	30	7.96	67.0	.49	378
3.3	± 10%	30	7.96	61.0	.55	357
3.9	± 10%	30	7.96	56.0	.59	344
4.7	± 10%	30	7.96	50.0	.62	336
5.6	± 10%	30	7.96	40.0	.69	333
6.8	± 10%	30	7.96	32.0	.75	306
8.2	± 10%	30	7.96	30.0	.82	292
10.0	± 10%	50	2.52	25.0	.90	279
12.0	± 10%	50	2.52	22.0	1.0	265
15.0	± 10%	50	2.52	18.0	1.10	252
18.0	± 10%	50	2.52	15.0	1.24	238
22.0	± 10%	50	2.52	14.0	1.36	227
27.0	± 10%	50	2.52	13.0	1.56	212
33.0	± 10%	50	2.52	12.0	1.72	202
39.0	± 10%	50	2.52	11.0	1.89	192
47.0	± 10%	50	2.52	9.0	2.10	183
56.0	± 10%	50	2.52	8.0	2.34	173
68.0	± 10%	50	2.52	7.6	2.60	164
82.0	± 10%	50	2.52	7.2	2.86	156
100.0	± 10%	50	.796	7.0	3.25	147
120.0	± 10%	50	.796	6.0	3.64	139
150.0	± 10%	50	.796	5.0	4.16	130
180.0	± 10%	40	.796	4.5	5.72	111
220.0	± 10%	40	.796	4.2	6.30	105
270.0	± 10%	40	.796	4.0	6.90	101
330.0	± 10%	40	.796	3.7	7.54	96
390.0	± 10%	40	.796	3.5	8.20	92
470.0	± 10%	40	.796	3.3	9.20	87
560.0	± 10%	40	.796	2.8	10.50	82
680.0	± 10%	40	.796	2.6	12.0	76
820.0	± 10%	40	.796	2.2	13.50	72
1000.0	± 10%	40	.252	2.0	16.0	66

ELECTRICAL SPECIFICATIONS

Inductance Range: .10μH to 1000μH.

Inductance Tolerance: ± 20% for .10μH to .82μH.
± 10% for 1.0μH to 1000μH standard.
± 10%, ± 5%, ± 3% and 2% (also 1% on some values) available.

Temperature Range: - 55°C to + 125°C.

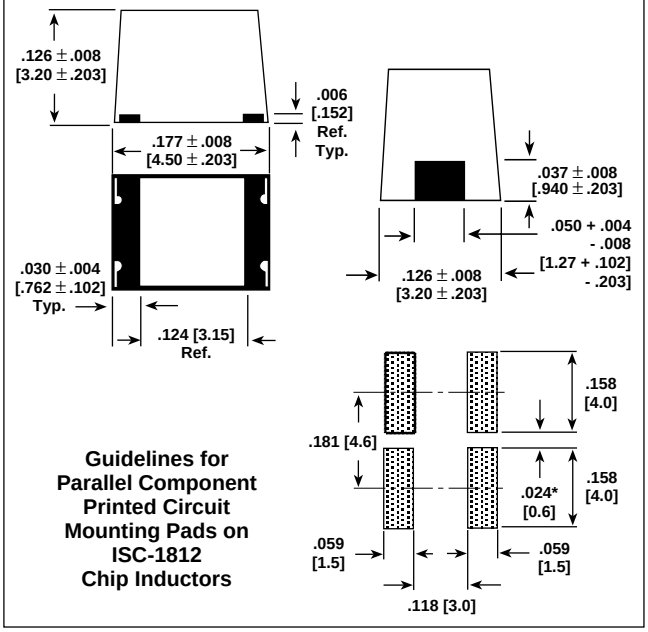
Coilform Material: Non-Magnetic for .10μH to .82μH. Powdered iron for 1.0μH to 22μH. Ferrite for 27μH to 1000μH.

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

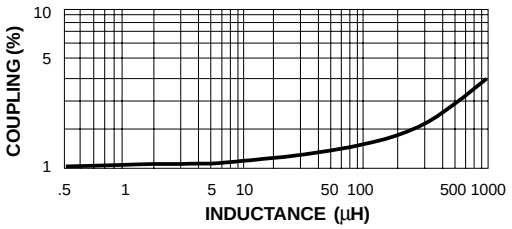
[Numbers in brackets indicate millimeters]



Guidelines for Parallel Component Printed Circuit Mounting Pads on ISC-1812 Chip Inductors

*Recommended minimum spacing between components.

COUPLING SPECIFICATIONS (MAXIMUM)



PART MARKING

— Vishay Dale
— Inductance value
— Date code

HOW TO ORDER

ISC-1812	10μH	±10%
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE