

Surface Mount, Molded, Shielded 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%	50	50	1000	0.10	810
0.012	±20%	50	50	1000	0.11	750
0.015	±20%	50	50	1000	0.12	720
0.018	±20%	50	50	1000	0.13	690
0.022	±20%	45	50	1000	0.15	640
0.027	±20%	45	50	1000	0.17	610
0.033	±20%	45	50	1000	0.18	585
0.039	±20%	40	50	1000	0.24	530
0.047	±20%	40	50	1000	0.26	495
0.056	±20%	40	50	1000	0.28	485
0.068	±20%	40	50	1000	0.35	475
0.082	±20%	38	50	900	0.45	460
0.10	±20%	36	50	700	0.50	450
0.12	±20%	40	25.2	500	0.20	630
0.15	±20%	40	25.2	470	0.20	600
0.18	±20%	40	25.2	400	0.24	580
0.22	±20%	40	25.2	330	0.30	565
0.27	±20%	40	25.2	310	0.33	500
0.33	±20%	40	25.2	280	0.36	475
0.39	±20%	40	25.2	230	0.40	465
0.47	±20%	40	25.2	220	0.44	460
0.56	±20%	40	25.2	200	0.46	455
0.68	±20%	40	25.2	180	0.48	450
0.82	±20%	40	25.2	160	0.50	450
1.0	±10%	30	7.96	120	0.60	400
1.2	±10%	30	7.96	110	0.65	390
1.5	±10%	30	7.96	90.0	0.75	370
1.8	±10%	30	7.96	85.0	0.85	350
2.2	±10%	30	7.96	65.0	0.90	320
2.7	±10%	30	7.96	60.0	1.00	290
3.3	±10%	30	7.96	60.0	1.10	270
3.9	±10%	30	7.96	58.0	1.20	250
4.7	±10%	30	7.96	52.0	1.25	220
5.6	±10%	30	7.96	50.0	1.40	210
6.8	±10%	30	7.96	40.0	1.60	205
8.2	±10%	30	7.96	35.0	1.65	195
10.0	±10%	30	2.52	30.0	2.00	185
12.0	±10%	30	2.52	24.0	2.30	175
15.0	±10%	30	2.52	20.0	2.50	165
18.0	±10%	30	2.52	17.0	2.70	155
22.0	±10%	30	2.52	16.0	3.10	150
27.0	±10%	30	2.52	14.5	3.30	125
33.0	±10%	30	2.52	14.5	5.10	115
39.0	±10%	30	2.52	14.0	5.90	105
47.0	±10%	30	2.52	13.0	8.00	100
56.0	±10%	30	2.52	11.5	10.0	95
68.0	±10%	30	2.52	11.0	10.0	90
82.0	±10%	30	2.52	11.0	11.0	85
100.0	±10%	30	0.796	6.0	12.0	80

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

FEATURES

- Molded construction provides superior strength and moisture resistance
- Tape and reel packaging for automatic handling, 2000/reel, EIA 481
- Compatible with vapor phase, infrared and wave soldering methods
- Shielded construction minimizes coupling to other components
- 100 % lead (Pb)-free and RoHS compliant



RoHS
COMPLIANT

ELECTRICAL SPECIFICATIONS

Inductance Range: 0.01 μH to 100 μH

Inductance Tolerance: ± 20 % for 0.01 μH to 0.82 μH
± 10 % for 1.0 μH to 100 μH standard. 3 % and 5 % tolerances available

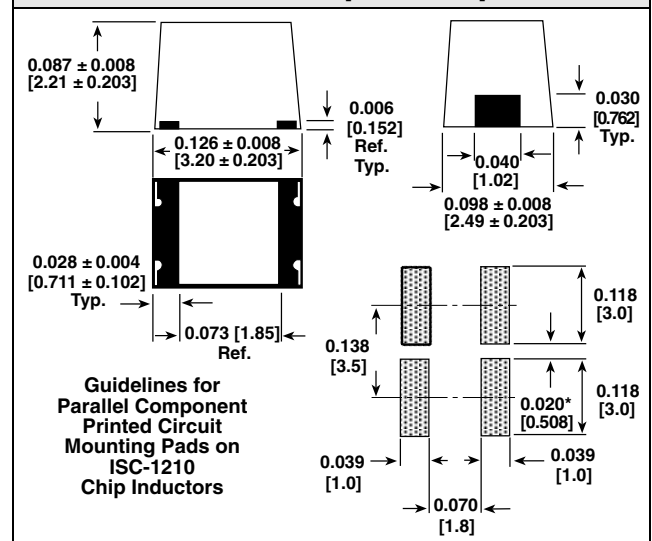
Temperature Range: - 55 °C to + 125 °C

Coilform Material: Non-magnetic for 0.01 μH to 0.10 μH
Powdered Iron for 0.12 μH to 100 μH

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 minimum spacing between components.

PART MARKING

- Dale
- Inductance value
- Date code

DESCRIPTION

ISC-1210
MODEL

10 μH
INDUCTANCE
VALUE

± 10%
INDUCTANCE
TOLERANCE

ER
PACKAGE
CODE

e3
JEDEC LEAD (Pb)-FREE
STANDARD

GLOBAL PART NUMBER

I S C
PRODUCT FAMILY

1 2 1 0
SIZE

E R
PACKAGE CODE

1 0 0
INDUCTANCE VALUE

K
TOL.



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