



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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# Wirewound, Surface Mount, Molded, Shielded Inductors



STANDARD ELECTRICAL SPECIFICATIONS						
IND. (μH)	TOL.	TEST FREQ. (MHz)	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) <sup>(1)</sup>
		L & Q				
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 %	50	45	1000	0.15	640
0.027	± 20 %	50	45	1000	0.17	610
0.033	± 20 %	50	45	1000	0.18	585
0.039	± 20 %	50	40	1000	0.24	530
0.047	± 20 %	50	40	1000	0.26	495
0.056	± 20 %	50	40	1000	0.28	485
0.068	± 20 %	50	40	1000	0.35	475
0.082	± 20 %	50	38	900	0.45	460
0.10	± 20 %	50	36	700	0.50	450
0.12	± 20 %	25.2	40	500	0.20	630
0.15	± 20 %	25.2	40	470	0.20	600
0.18	± 20 %	25.2	40	400	0.24	580
0.22	± 20 %	25.2	40	330	0.30	565
0.27	± 20 %	25.2	40	310	0.33	500
0.33	± 20 %	25.2	40	280	0.36	475
0.39	± 20 %	25.2	40	230	0.40	465
0.47	± 20 %	25.2	40	220	0.44	460
0.56	± 20 %	25.2	40	200	0.46	455
0.68	± 20 %	25.2	40	180	0.48	450
0.82	± 20 %	25.2	40	160	0.50	450
1.0	± 10 %	7.96	30	120	0.60	400
1.2	± 10 %	7.96	30	110	0.65	390
1.5	± 10 %	7.96	30	90.0	0.75	370
1.8	± 10 %	7.96	30	85.0	0.85	350
2.2	± 10 %	7.96	30	65.0	0.90	320
2.7	± 10 %	7.96	30	60.0	1.00	290
3.3	± 10 %	7.96	30	60.0	1.10	270
3.9	± 10 %	7.96	30	58.0	1.20	250
4.7	± 10 %	7.96	30	52.0	1.25	220
5.6	± 10 %	7.96	30	50.0	1.40	210
6.8	± 10 %	7.96	30	40.0	1.60	205
8.2	± 10 %	7.96	30	35.0	1.65	195
10.0	± 10 %	2.52	30	30.0	2.00	185
12.0	± 10 %	2.52	30	24.0	2.30	175
15.0	± 10 %	2.52	30	20.0	2.50	165
18.0	± 10 %	2.52	30	17.0	2.70	155
22.0	± 10 %	2.52	30	16.0	3.10	150
27.0	± 10 %	2.52	30	14.5	3.30	125
33.0	± 10 %	2.52	30	14.5	5.10	115
39.0	± 10 %	2.52	30	14.0	5.90	105
47.0	± 10 %	2.52	30	13.0	8.00	100
56.0	± 10 %	2.52	30	11.5	10.0	95
68.0	± 10 %	2.52	30	11.0	10.0	90
82.0	± 10 %	2.52	30	11.0	11.0	85
100.0	± 10 %	0.796	30	6.0	12.0	80

**Note**  
<sup>(1)</sup> 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
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS COMPLIANT**  
**HALOGEN FREE**

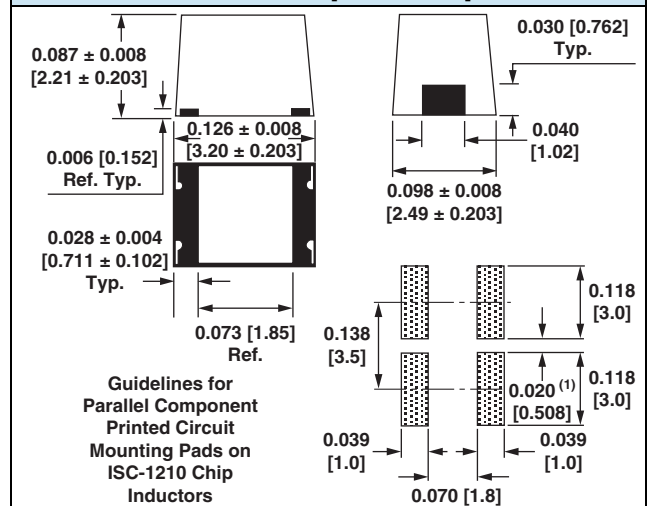
## ELECTRICAL SPECIFICATIONS

**Inductance range:** 0.01 μH to 100 μH  
**Special tolerances available upon request**  
**Operating temperature:** -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]



**Note**  
<sup>(1)</sup> Recommended minimum spacing between components

## PART MARKING

- Vishay Dale
- Inductance value
- Date code

DESCRIPTION				
ISC-1210	10 μH	± 10 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER				
I	S	C	1 2 1 0	E R 1 0 0 K
PRODUCT FAMILY			SIZE	PACKAGE CODE
			INDUCTANCE VALUE	TOL.





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