



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!



## Contact us

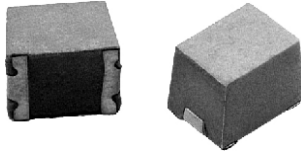
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# Wirewound, Surface Mount, Molded Inductors



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 %	50.0	50	1000	0.20	450
0.012	± 20 %	50.0	50	1000	0.20	450
0.018	± 20 %	50.0	50	1000	0.20	450
0.022	± 20 %	50.0	50	1000	0.20	450
0.027	± 20 %	50.0	50	1000	0.20	450
0.033	± 20 %	50.0	50	1000	0.30	450
0.039	± 20 %	50.0	50	1000	0.30	450
0.047	± 20 %	50.0	50	1000	0.30	450
0.056	± 20 %	50.0	40	900	0.35	450
0.068	± 20 %	50.0	40	800	0.35	450
0.082	± 20 %	50.0	40	700	0.40	450
0.10	± 20 %	25.2	30	650	0.32	450
0.12	± 20 %	25.2	30	600	0.30	450
0.15	± 20 %	25.2	30	500	0.30	450
0.18	± 20 %	25.2	30	400	0.35	450
0.22	± 20 %	25.2	30	350	0.40	450
0.27	± 20 %	25.2	30	300	0.45	450
0.33	± 20 %	25.2	30	250	0.55	430
0.39	± 20 %	25.2	30	220	0.70	380
0.47	± 10 %	25.2	30	190	0.80	355
0.56	± 10 %	25.2	30	170	1.20	285
0.68	± 10 %	25.2	30	150	1.40	270
0.82	± 10 %	25.2	30	140	1.60	250
1.0	± 10 %	7.96	50	100	0.50	450
1.2	± 10 %	7.96	50	80.0	0.55	430
1.5	± 10 %	7.96	50	70.0	0.60	410
1.8	± 10 %	7.96	50	60.0	0.65	390
2.2	± 10 %	7.96	50	55.0	0.70	380
2.7	± 10 %	7.96	50	50.0	0.75	370
3.3	± 10 %	7.96	50	45.0	0.80	355
3.9	± 10 %	7.96	50	40.0	0.90	330
4.7	± 10 %	7.96	50	35.0	1.00	315
5.6	± 10 %	7.96	50	33.0	1.10	300
6.8	± 10 %	7.96	50	27.0	1.20	285
8.2	± 10 %	7.96	50	25.0	1.40	270
10.0	± 10 %	2.52	50	20.0	1.60	250
12.0	± 10 %	2.52	50	18.0	2.00	225
15.0	± 10 %	2.52	50	17.0	2.50	200
18.0	± 10 %	2.52	50	15.0	2.80	190
22.0	± 10 %	2.52	50	13.0	3.20	180
27.0	± 10 %	2.52	50	12.0	3.60	170
33.0	± 10 %	2.52	50	11.0	4.00	160
39.0	± 10 %	2.52	50	11.0	4.50	150
47.0	± 10 %	2.52	50	10.0	5.00	140
56.0	± 10 %	2.52	50	9.0	5.50	135
68.0	± 10 %	2.52	50	9.0	6.00	130
82.0	± 10 %	2.52	50	8.0	7.00	120
100.0	± 10 %	0.79	40	8.0	8.00	110
120.0	± 10 %	0.79	40	6.0	8.00	110
150.0	± 10 %	0.79	40	5.0	9.00	105
180.0	± 10 %	0.79	40	5.0	9.50	102
220.0	± 10 %	0.79	40	4.0	10.0	100
270.0	± 10 %	0.79	40	4.0	12.0	92
330.0	± 10 %	0.79	40	3.5	14.0	85
390.0	± 10 %	0.79	40	3.0	16.0	80
470.0	± 10 %	0.79	40	3.0	26.0	62
560.0	± 10 %	0.79	30	3.0	30.0	50
680.0	± 10 %	0.79	30	3.0	30.0	50
820.0	± 10 %	0.79	30	2.5	35.0	30
1000.0	± 10 %	0.25	30	2.5	40.0	30

**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
- Printed marking
- Compatible with vapor phase and infrared reflow soldering
- Material categorization: for definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT

**ELECTRICAL SPECIFICATIONS**

Inductance range: 0.010 μH to 1000 μH

Special tolerances available upon request

Operating temperature: -55 °C to +125 °C

Coilform material: Non-magnetic for 0.010 μH to 0.82 μH

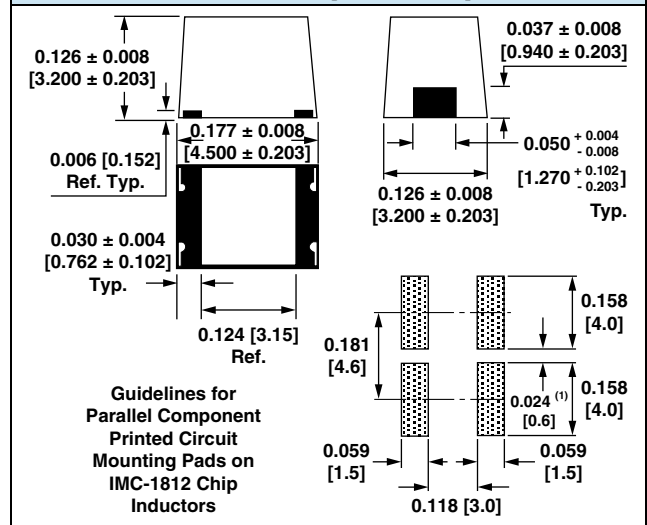
Powdered iron for 1.0 μH to 120 μH

Ferrite for 150 μH to 1000 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>(2)</sup> Recommended minimum spacing between components

**PART MARKING**

- Vishay Dale
- Inductance value
- Date code



DESCRIPTION				
IMC-1812	10 $\mu$ H	$\pm 10 \%$	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER												
I	M	C	1	8	1	2	E	R	1	0	0	K
PRODUCT FAMILY			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.



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