



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 Inductors



STANDARD ELECTRICAL SPECIFICATIONS						
IND. (μH)	TOL.	TEST FREQ. (MHz)	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) ⁽¹⁾
		L & Q				
1.0	± 10 %	7.96	10	200	0.11	1050
1.2	± 10 %	7.96	10	160	0.12	1000
1.5	± 10 %	7.96	10	130	0.15	950
1.8	± 10 %	7.96	10	100	0.16	900
2.2	± 10 %	7.96	10	60.0	0.18	850
2.7	± 10 %	7.96	10	60.0	0.20	800
3.3	± 10 %	7.96	10	45.0	0.22	750
3.9	± 10 %	7.90	10	40.0	0.24	700
4.7	± 10 %	7.96	10	35.0	0.3	650
5.6	± 10 %	7.96	10	30.0	0.3	650
6.8	± 10 %	7.96	10	28.0	0.4	600
8.2	± 10 %	7.96	10	25.0	0.4	600
10	± 10 %	2.52	10	22.0	0.5	550
12	± 10 %	2.52	10	21.0	0.6	500
15	± 10 %	2.52	10	20.0	0.7	450
18	± 10 %	2.52	10	19.0	0.8	400
22	± 10 %	2.52	10	18.0	0.9	370
27	± 10 %	2.52	10	16.0	1.2	330
33	± 10 %	2.52	10	14.0	1.4	300
39	± 10 %	2.52	10	12.0	1.6	280
47	± 10 %	2.52	10	11.5	1.9	260
56	± 10 %	2.52	10	11.0	2.2	240
68	± 10 %	2.52	10	10.0	2.6	220
82	± 10 %	2.52	10	9.0	3.5	200
100	± 10 %	0.796	20	8.0	4.0	180
120	± 10 %	0.796	20	6.5	4.5	160
150	± 10 %	0.796	20	7.0	6.5	140
180	± 10 %	0.796	20	5.5	7.5	120
220	± 10 %	0.796	20	5.5	9	120
270	± 10 %	0.796	20	5.0	11	100
330	± 10 %	0.796	20	4.0	13	90

Note

⁽¹⁾ 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, 500/reel, EIA-481
- Compatible with vapor phase, infrared and wave soldering methods
- Compliant to RoHS Directive 2002/95/EC


RoHS
COMPLIANT

ELECTRICAL SPECIFICATIONS
Inductance Range: 1 μH to 330 μH

Inductance Tolerance: ± 10 %

Operating Temperature: - 40 °C to + 85 °C

Storage Temperature: - 40 °C to + 100 °C

TEST EQUIPMENT

- L & Q: H/P 4285A
- SRF: H/P 4286A
- DCR: H/P 34401

DIMENSIONS in inches [millimeters]

A	B	C
0.177 ± 0.012 [4.5 ± 0.3]	0.126 ± 0.012 [3.2 ± 0.3]	0.126 ± 0.012 [3.2 ± 0.3]
D	E	
0.055 ± 0.016 [1.4 ± 0.4]	0.035 ± 0.008 [0.9 ± 0.2]	

PART MARKING

- Inductance value

DESCRIPTION

IMCH-1812	22 μH	± 10 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

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



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