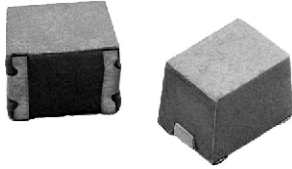


Wirewound, Surface Mount, Molded Inductors



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
- Compliant to RoHS directive 2002/95/EC


RoHS
COMPLIANT

STANDARD ELECTRICAL SPECIFICATIONS

IND. (μ H)	TOL.	TEST FREQ. (MHz)	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT ⁽¹⁾ (mA)
		L & Q				
0.010	$\pm 20\%$	50.0	50	1000	0.20	450
0.012	$\pm 20\%$	50.0	50	1000	0.20	450
0.018	$\pm 20\%$	50.0	50	1000	0.20	450
0.022	$\pm 20\%$	50.0	50	1000	0.20	450
0.027	$\pm 20\%$	50.0	50	1000	0.20	450
0.033	$\pm 20\%$	50.0	50	1000	0.30	450
0.039	$\pm 20\%$	50.0	50	1000	0.30	450
0.047	$\pm 20\%$	50.0	50	1000	0.30	450
0.056	$\pm 20\%$	50.0	40	900	0.35	450
0.068	$\pm 20\%$	50.0	40	800	0.35	450
0.082	$\pm 20\%$	50.0	40	700	0.40	450
0.10	$\pm 20\%$	25.2	30	650	0.32	450
0.12	$\pm 20\%$	25.2	30	600	0.30	450
0.15	$\pm 20\%$	25.2	30	500	0.30	450
0.18	$\pm 20\%$	25.2	30	400	0.35	450
0.22	$\pm 20\%$	25.2	30	350	0.40	450
0.27	$\pm 20\%$	25.2	30	300	0.45	450
0.33	$\pm 20\%$	25.2	30	250	0.55	430
0.39	$\pm 20\%$	25.2	30	220	0.70	380
0.47	$\pm 10\%$	25.2	30	190	0.80	355
0.56	$\pm 10\%$	25.2	30	170	1.20	285
0.68	$\pm 10\%$	25.2	30	150	1.40	270
0.82	$\pm 10\%$	25.2	30	140	1.60	250
1.0	$\pm 10\%$	7.96	50	100	0.50	450
1.2	$\pm 10\%$	7.96	50	80.0	0.55	430
1.5	$\pm 10\%$	7.96	50	70.0	0.60	410
1.8	$\pm 10\%$	7.96	50	60.0	0.65	390
2.2	$\pm 10\%$	7.96	50	55.0	0.70	380
2.7	$\pm 10\%$	7.96	50	50.0	0.75	370
3.3	$\pm 10\%$	7.96	50	45.0	0.80	355
3.9	$\pm 10\%$	7.96	50	40.0	0.90	330
4.7	$\pm 10\%$	7.96	50	35.0	1.00	315
5.6	$\pm 10\%$	7.96	50	33.0	1.10	300
6.8	$\pm 10\%$	7.96	50	27.0	1.20	285
8.2	$\pm 10\%$	7.96	50	25.0	1.40	270
10.0	$\pm 10\%$	2.52	50	20.0	1.60	250
12.0	$\pm 10\%$	2.52	50	18.0	2.00	225
15.0	$\pm 10\%$	2.52	50	17.0	2.50	200
18.0	$\pm 10\%$	2.52	50	15.0	2.80	190
22.0	$\pm 10\%$	2.52	50	13.0	3.20	180
27.0	$\pm 10\%$	2.52	50	12.0	3.60	170
33.0	$\pm 10\%$	2.52	50	11.0	4.00	160
39.0	$\pm 10\%$	2.52	50	11.0	4.50	150
47.0	$\pm 10\%$	2.52	50	10.0	5.00	140
56.0	$\pm 10\%$	2.52	50	9.0	5.50	135
68.0	$\pm 10\%$	2.52	50	9.0	6.00	130
82.0	$\pm 10\%$	2.52	50	8.0	7.00	120
100.0	$\pm 10\%$	0.79	40	8.0	8.00	110
120.0	$\pm 10\%$	0.79	40	6.0	8.00	110
150.0	$\pm 10\%$	0.79	40	5.0	9.00	105
180.0	$\pm 10\%$	0.79	40	5.0	9.50	102
220.0	$\pm 10\%$	0.79	40	4.0	10.0	100
270.0	$\pm 10\%$	0.79	40	4.0	12.0	92
330.0	$\pm 10\%$	0.79	40	3.5	14.0	85
390.0	$\pm 10\%$	0.79	40	3.0	16.0	80
470.0	$\pm 10\%$	0.79	40	3.0	26.0	62
560.0	$\pm 10\%$	0.79	30	3.0	30.0	50
680.0	$\pm 10\%$	0.79	30	3.0	30.0	50
820.0	$\pm 10\%$	0.79	30	2.5	35.0	30
1000.0	$\pm 10\%$	0.25	30	2.5	40.0	30

Note

(1) Rated DC current based on the maximum temperature rise, not to exceed 40 °C at + 85 °C ambient

ELECTRICAL SPECIFICATIONS

Inductance Range: 0.010 μ H to 1000 μ H

Inductance Tolerance: $\pm 20\%$ for 0.010 μ H to 0.39 μ H
 $\pm 10\%$ for 0.47 μ H to 1000 μ H standard
 $\pm 10\%$, $\pm 5\%$, $\pm 3\%$ available

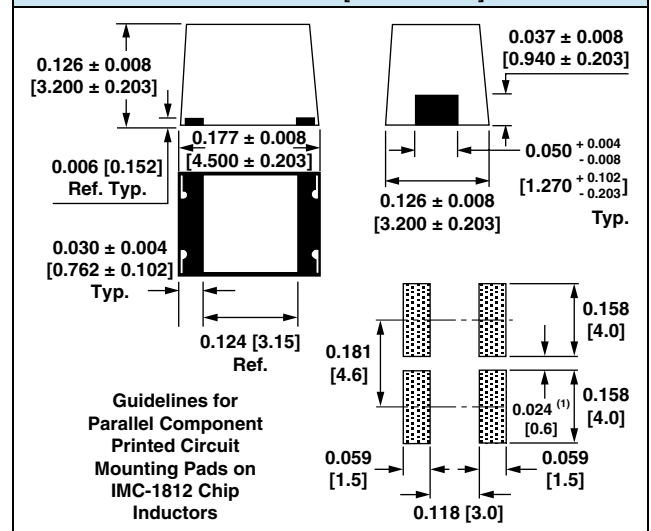
Operating Temperature: - 55 °C to + 125 °C

Coilform Material: Non-magnetic for 0.010 μ H to 0.82 μ H
 Powdered iron for 1.0 μ H to 120 μ H
 Ferrite for 150 μ H to 1000 μ H

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

(1) Recommended minimum spacing between components

PART MARKING

- Vishay Dale
- Inductance value
- Date code



DESCRIPTION				
IMC-1812	10 μ 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.



Disclaimer

All product specifications and data are subject to change without notice.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained herein or in any other disclosure relating to any product.

Vishay disclaims any and all liability arising out of the use or application of any product described herein or of any information provided herein to the maximum extent permitted by law. The product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein, which apply to these products.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications unless otherwise expressly indicated. Customers using or selling Vishay products not expressly indicated for use in such applications do so entirely at their own risk and agree to fully indemnify Vishay for any damages arising or resulting from such use or sale. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

Product names and markings noted herein may be trademarks of their respective owners.