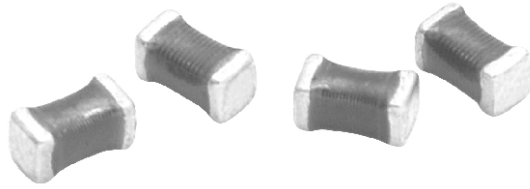


High Frequency, Surface Mount, Laser Spiral, Coated Inductors



FEATURES

- Very small size
- High self-resonant frequency values
- High Q values relative to size at higher frequencies
- Coated coil provides protection and moisture resistance
- Compatible with vapor phase and infrared reflow soldering
- Tape and reel packaging for automatic handling, 3000/reel, EIA-481
- L and Q value not affected by mounting orientation
- Compliant to RoHS directive 2002/95/EC



STANDARD ELECTRICAL SPECIFICATIONS

IND. (nH)	TOL.	TEST FREQ. (MHz)		Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT ⁽¹⁾ (mA)
		L	Q				
1.0	0.3nH, 0.2nH	100	1000	30	6000	0.06	500
1.2	0.3nH, 0.2nH	100	1000	30	6000	0.06	500
1.5	0.3nH, 0.2nH	100	1000	30	6000	0.07	500
1.8	0.3nH, 0.2nH	100	1000	30	6000	0.08	500
2.2	0.3nH, 0.2nH	100	1000	30	6000	0.09	500
2.7	0.3nH, 0.2nH	100	1000	30	6000	0.10	500
3.3	0.3nH, 0.2nH	100	1000	30	5500	0.12	500
3.9	5 %	100	1000	30	5500	0.15	450
4.7	5 %	100	1000	30	4800	0.17	450
5.6	5 %	100	1000	30	4600	0.19	430
6.8	5 %	100	1000	30	3550	0.20	430
8.2	5 %	100	1000	30	3500	0.28	400
10	5 %, 2 %	100	500	30	2800	0.32	400
12	5 %, 2 %	100	500	30	2800	0.35	400
15	5 %, 2 %	100	500	30	2500	0.41	350
18	5 %, 2 %	100	500	30	2300	0.45	350
22	5 %, 2 %	100	500	30	2000	0.50	300
27	5 %, 2 %	100	500	30	2000	0.55	300
33	5 %, 2 %	100	500	30	1800	0.60	300
39	5 %, 2 %	100	500	30	1800	0.80	300
47	5 %, 2 %	100	500	30	1800	0.95	250
56	5 %, 2 %	100	500	30	1800	1.20	250
68	5 %, 2 %	100	500	30	1500	1.30	250
82	5 %, 2 %	100	500	30	1500	1.50	250
100	5 %, 2 %	100	500	26	1300	1.80	200
120	5 %, 2 %	100	500	26	1200	3.00	130
150	5 %, 2 %	100	500	26	1100	4.50	100
180	5 %, 2 %	100	500	20	1000	6.50	80
220	5 %, 2 %	100	500	20	900	7.50	70

Note

(1) Value obtained when current flows and temperature has risen 15 °C

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 nH to 220 nH

Inductance and Tolerance: ± 0.3 nH for 1.0 nH to 3.3 nH, ± 5 % for 3.9 nH to 220 nH

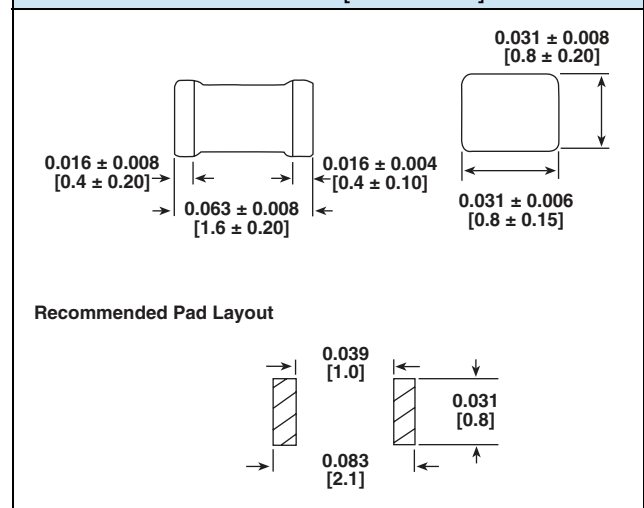
Operating Temperature: - 40 °C to + 100 °C

Core Material: Ceramic

TEST EQUIPMENT

- Inductance and Q measured on HP4291B
- SRF measured on HP8753E
- DCR measured on HP4338B

DIMENSIONS in inches [millimeters]



DESCRIPTION

IMC-0603	10 nH	± 5 %	ER	e4
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	M	C	0	6	0	3	E	R	1	0	N	J
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.