

Wirewound, Surface Mount Inductors



FEATURES

- Excellent solderability and resistance to soldering heat
- Suitable for reflow soldering
- High reliability and easy surface mount assembly
- Wide range of inductance values available
- Tape and reel packaging for automatic handling, 3000/reel EIA 481
- Compliant to RoHS Directive 2002/95/EC


RoHS
COMPLIANT

GREEN
(5-2008)**

STANDARD ELECTRICAL SPECIFICATIONS

IND. (nH)	TOL.	TEST FREQ. (MHz)	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) ⁽¹⁾
		L & Q				
2.0	0.3 nH, 0.2 nH	250	16	6900	0.08	700
3.9	0.3 nH, 0.2 nH	250	20	6900	0.08	700
4.7	0.3 nH, 0.2 nH	250	20	5800	0.11	700
6.8	10 %, 5 %	250	30	5800	0.11	700
8.2	10 %, 5 %	250	30	4600	0.10	700
10	5 %, 2 %	250	30	4800	0.13	700
12	5 %, 2 %	250	35	4000	0.13	700
15	5 %, 2 %	250	35	4000	0.17	700
18	5 %, 2 %	250	38	3100	0.17	700
22	5 %, 2 %	250	38	3000	0.22	700
27	5 %, 2 %	250	40	2800	0.22	600
33	5 %, 2 %	250	43	2300	0.22	600
39	5 %, 2 %	250	43	2200	0.25	600
47	5 %, 2 %	200	40	2000	0.28	600
56	5 %, 2 %	200	40	1900	0.31	600
68	5 %, 2 %	200	40	1700	0.34	600
72	5 %, 2 %	150	35	1700	0.49	400
82	5 %, 2 %	150	35	1700	0.54	400
100	5 %, 2 %	150	35	1400	0.63	400
120	5 %, 2 %	150	35	1300	0.65	300
150	5 %, 2 %	150	35	1000	0.92	280
180	5 %, 2 %	100	30	1000	1.25	240
220	5 %, 2 %	100	30	1000	1.70	200
270	5 %, 2 %	100	30	1000	1.80	170

Note

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

ELECTRICAL SPECIFICATIONS

Inductance Range: 2 nH to 270 nH

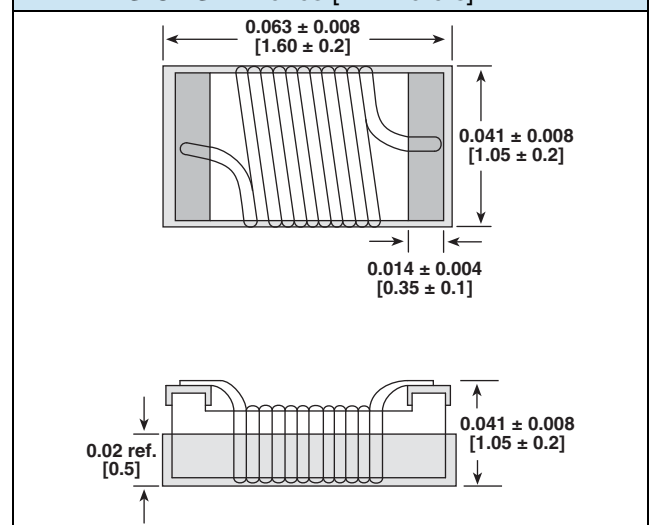
Operating Temperature: - 40 °C to + 125 °C

Storage Temperature: - 40 °C to + 125 °C

TEST EQUIPMENT

- Inductance is measured in HP4287A RF LCR meter with HP16193 fixture
- Q is measured in HP4287A RF LCR meter with HP16193 fixture
- SRF is measured in HP8753E RF network analyzer
- DCR is measured in HP4338B milliohmmeter

DIMENSIONS in inches [millimeters]

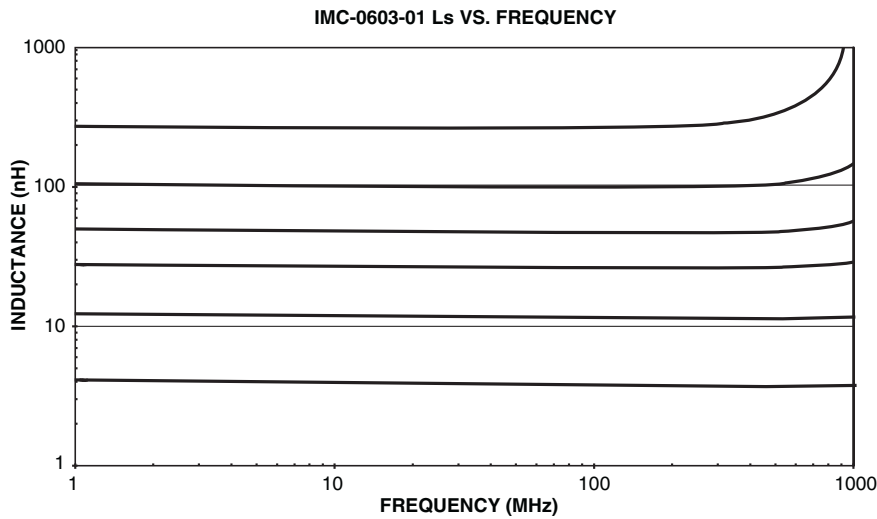
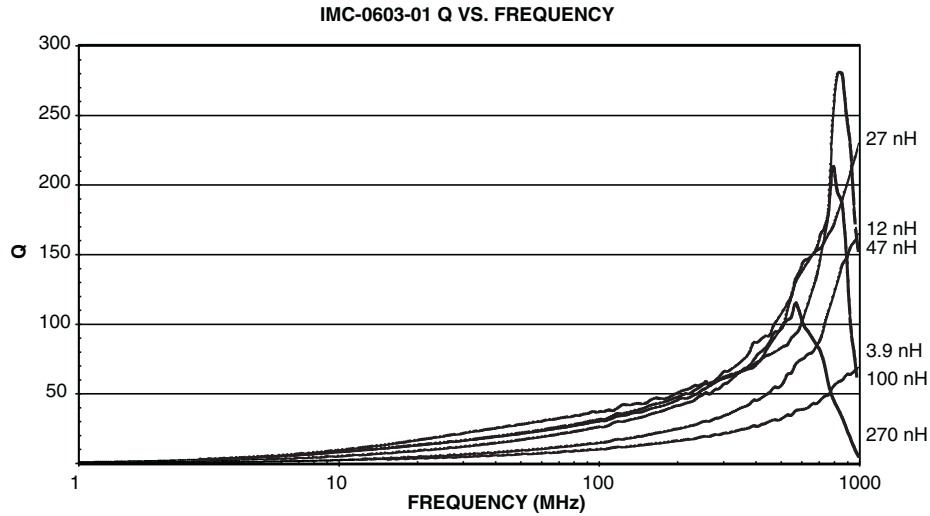


DESCRIPTION				
IMC-0603-01	10 nH	± 5 %	ER	e4
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

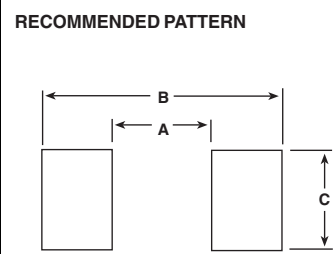
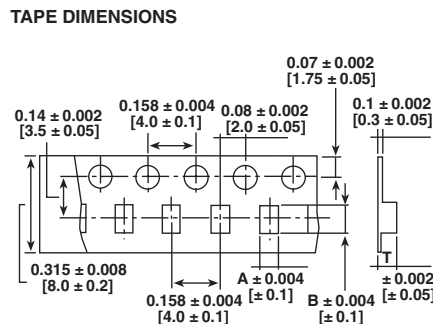
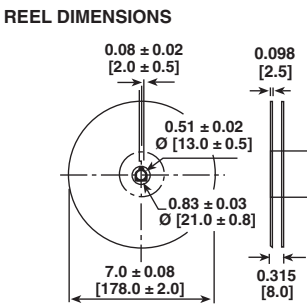
GLOBAL PART NUMBER														
I	M	C	0	6	0	3	E	R	1	0	N	J	0	1
PRODUCT FAMILY			SIZE			PACKAGE CODE		INDUCTANCE VALUE			TOL.	SERIES		

 ** Please see document "Vishay Material Category Policy": www.vishay.com/doc?99902

PERFORMANCE GRAPHS (IMC-0603-01)



TAPE AND REEL SPECIFICATIONS in inches [millimeters]



MODEL	UNITS PER REEL	MODEL	A	B	T	MODEL	A	B	C
IMC-0603-01	3000	IMC-0603-01	0.039 [1.0]	0.070 [1.8]	0.039 [1.0]	IMC-0603-01	0.039 [1.0]	0.083 [2.1]	0.030 [0.8]



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