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
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

HALOGEN FREE GREEN (5-2008)

STANDARD ELECTRICAL SPECIFICATIONS

IND. (nH)	TOL.	TEST FREQ. (MHz) L & Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA) (1)
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
330	5 %	100	25	450	2.00	150
390	5 %	100	20	350	2.00	170

Note

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

ELECTRICAL SPECIFICATIONS

Inductance Range: 2 nH to 270 nH

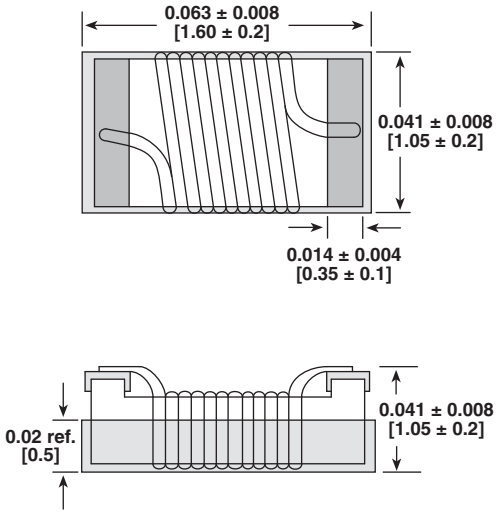
Operating Temperature: -40 °C to +125 °C

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 ismeasured in HP4338B millohmeter

DIMENSIONS in inches [millimeters]



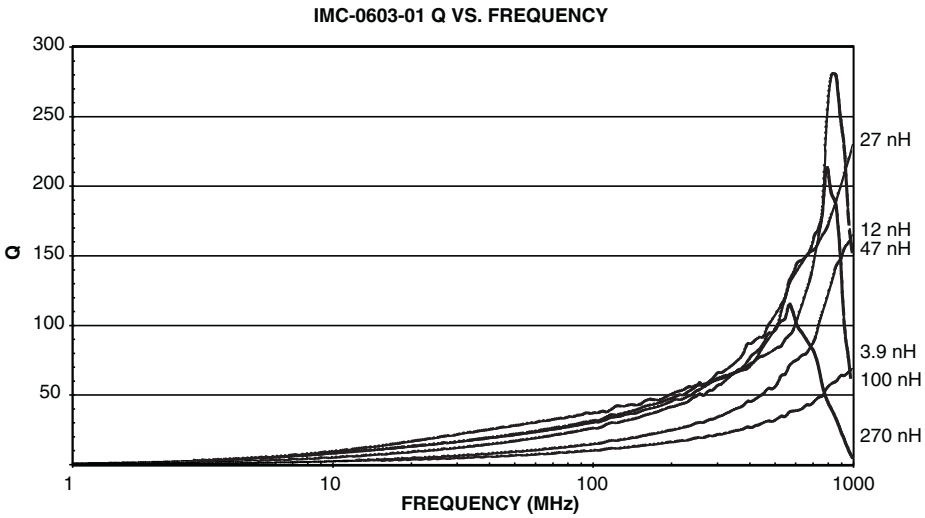
DESCRIPTION

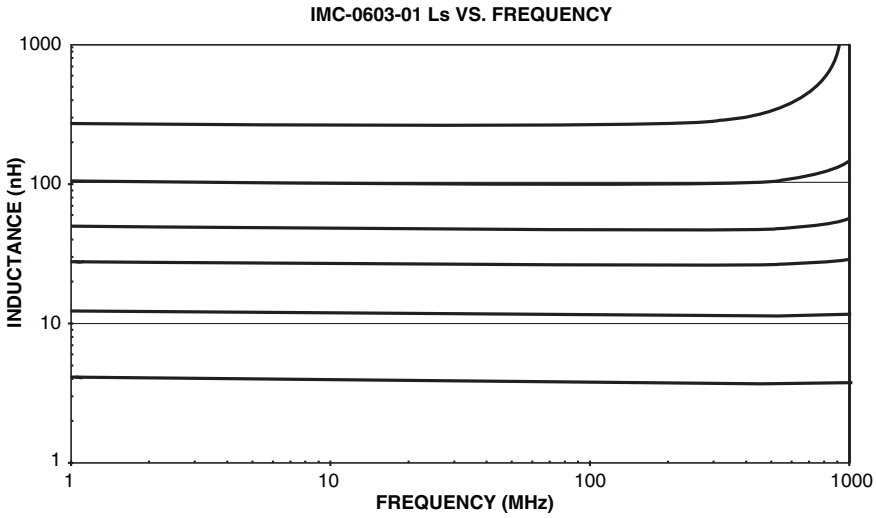
IMC-0603-01	10 nH	± 5 %	ER	e4
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

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	

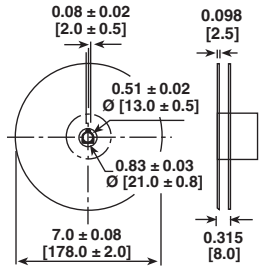
PERFORMANCE GRAPHS (IMC-0603-01)



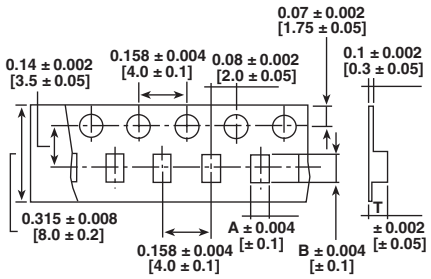


TAPE AND REEL SPECIFICATIONS in inches [millimeters]

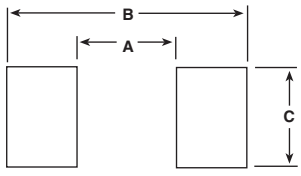
REEL DIMENSIONS



TAPE DIMENSIONS



RECOMMENDED PATTERN



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	0.025 [0.64]	0.075 [1.92]	0.040 [1.02]

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