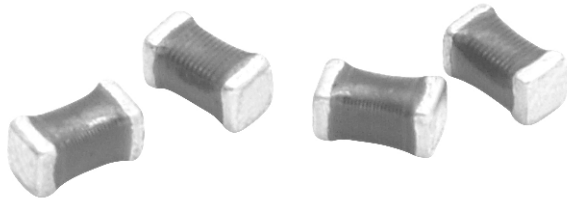


High Frequency, Surface Mount, Laser Spiral Coated Inductors



ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 nH to 220 nH

Inductance Tolerance: ± 0.3 nH for 1.0 - 3.3 nH
 $\pm 5\%$ for 3.9 nH to 220 nH

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

Material: Ceramic

FEATURES

- Very small in 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
- 100 % lead (Pb)-free and RoHS compliant



RoHS
COMPLIANT

TEST EQUIPMENT

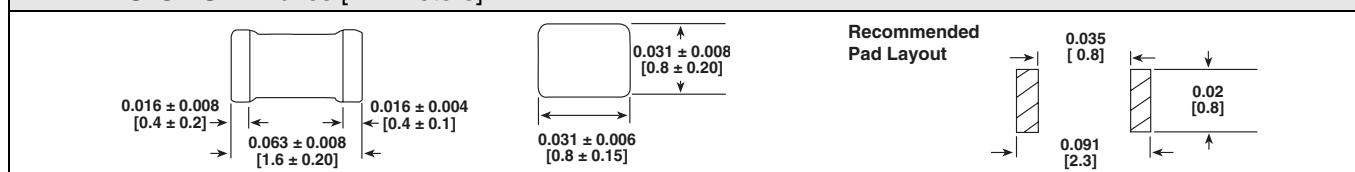
- Inductance and Q measured on HP4291B
- SRF measured on HP8753E
- DCR measured on HP4338B

STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE (nH)	TOLERANCE	TEST FREQ. L (MHz)	Q MINIMUM	TEST FREQ. Q (MHz)	SELF-RESONANT FREQ. MIN. (MHz)	DCR MAXIMUM (Ohms)	RATED DC CURRENT * (mA)
1.0	± 0.3 nH, 0.2 nH	100	30	1000	6000	0.06	500
1.2	± 0.3 nH, 0.2 nH	100	30	1000	6000	0.06	500
1.5	± 0.3 nH, 0.2 nH	100	30	1000	6000	0.07	500
1.8	± 0.3 nH, 0.2 nH	100	30	1000	6000	0.08	500
2.2	± 0.3 nH, 0.2 nH	100	30	1000	6000	0.09	500
2.7	± 0.3 nH, 0.2 nH	100	30	1000	6000	0.10	500
3.3	± 0.3 nH, 0.2 nH	100	30	1000	5500	0.12	500
3.9	$\pm 5\%$	100	30	1000	5500	0.15	450
4.7	$\pm 5\%$	100	30	1000	4800	0.17	450
5.6	$\pm 5\%$	100	30	1000	4600	0.18	430
6.8	$\pm 5\%$	100	30	1000	3550	0.20	430
8.2	$\pm 5\%$	100	30	1000	3500	0.28	400
10	$\pm 5\%$, 2 %	100	30	500	2800	0.32	400
12	$\pm 5\%$, 2 %	100	30	500	2800	0.35	400
15	$\pm 5\%$, 2 %	100	30	500	2500	0.41	350
18	$\pm 5\%$, 2 %	100	30	500	2300	0.45	350
22	$\pm 5\%$, 2 %	100	30	500	2000	0.50	300
27	$\pm 5\%$, 2 %	100	30	500	2000	0.55	300
33	$\pm 5\%$, 2 %	100	30	500	1800	0.60	300
39	$\pm 5\%$, 2 %	100	30	500	1800	0.80	300
47	$\pm 5\%$, 2 %	100	30	500	1800	0.95	250
56	$\pm 5\%$, 2 %	100	30	500	1800	1.20	250
68	$\pm 5\%$, 2 %	100	30	500	1500	1.30	250
82	$\pm 5\%$, 2 %	100	30	500	1500	1.50	250
100	$\pm 5\%$, 2 %	100	26	500	1300	1.80	200
120	$\pm 5\%$, 2 %	100	26	500	1200	3.00	130
150	$\pm 5\%$, 2 %	100	26	500	1100	4.50	100
180	$\pm 5\%$, 2 %	100	20	500	1000	6.5	80
220	$\pm 5\%$, 2 %	100	20	500	900	7.5	70

*Value obtained when current flows and the temperature has risen 15 °C

DIMENSIONS in inches [millimeters]



DESCRIPTION

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

GLOBAL PART NUMBER

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



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IMC0603RK10NJ	IMC0603RK6N8J	IMC0603RK68NJ	IMC0603RK15NJ	IMC0603RK8N2J	IMC0603RK3N3S
IMC0603RK1N5S	IMC0603RK1N0S	IMC0603RK1N8S	IMC0603RK12NJ	IMC0603RK4N7J	IMC0603RK5N6J
IMC0603RKR12J	IMC0603RK3N9J	IMC0603ER33NJ	IMC0603ER22NJ	IMC0603ER2N2S	IMC0603ER3N3S
IMC0603ER82NJ	IMC0603ERR10J	IMC0603ER5N6S	IMC0603RK33NJ	IMC0603RK2N2S	IMC0603RK18NJ
IMC0603RK39NJ	IMC0603RK56NJ	IMC0603RKR10J	IMC0603RKR15J	IMC0603RKR22J	IMC0603RK27NJ
IMC0603RK82NJ	IMC0603RK2N7S	IMC0603RK22NJ	IMC0603ER10NJ	IMC0603ER2N7S	IMC0603ER4N7J
IMC0603ER5N6J	IMC0603ER8N2J	IMC0603ER27NJ	IMC0603ER47NJ	IMC0603ER68NJ	