

MCI Series
 Multilayer Ceramic SMD Inductor
 Size 0603



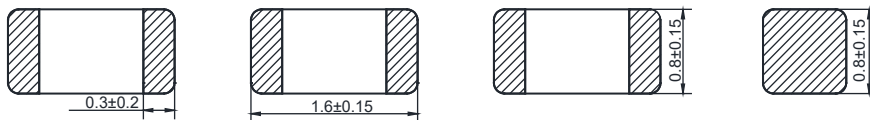
CHARACTERISTICS

- Multilayer design with ceramic design
- High SRF up to 15Ghz
- Small size and small tolerance available
- Quantity: 4000pcs

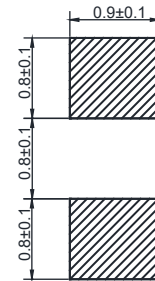
APPLICATION

- HF application

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance (nH)	Tolerance	Q Min.	Temperature Rise Current Max. (mA)	DCR Max. (Ω)	SRF Typ. (MHz)
MCI0603-1N0S	1.0	±0.3 nH	8	600	0.1	17000
MCI0603-1N2S	1.2	±0.3 nH	8	600	0.1	17000
MCI0603-1N5S	1.5	±0.3 nH	8	600	0.1	17000
MCI0603-1N8S	1.8	±0.3 nH	8	600	0.15	13000
MCI0603-2N2S	2.2	±0.3 nH	8	600	0.15	12000
MCI0603-2N7S	2.7	±0.3 nH	8	600	0.2	8600
MCI0603-3N3S	3.3	±0.3 nH	8	600	0.25	6500
MCI0603-3N9S	3.9	±0.3 nH	8	600	0.25	6300
MCI0603-4N7S	4.7	±0.3 nH	8	600	0.3	5400
MCI0603-5N6S	5.6	±0.3 nH	8	600	0.3	4600
MCI0603-6N8J	6.8	±5%	8	600	0.35	4500
MCI0603-8N2J	8.2	±5%	8	600	0.4	3800
MCI0603-10NJ	10	±5%	8	600	0.45	3700
MCI0603-12NJ	12	±5%	8	600	0.5	3200
MCI0603-15NJ	15	±5%	8	600	0.55	2900
MCI0603-18NJ	18	±5%	10	600	0.6	2100
MCI0603-22NJ	22	±5%	10	600	0.65	2100

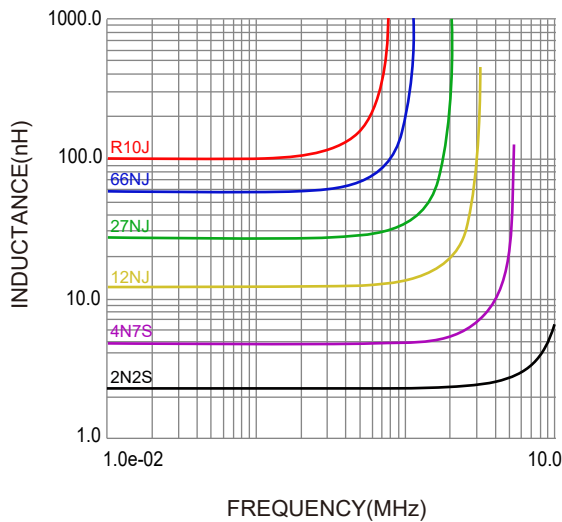
Part No	Inductance (nH)	Tolerance	Q Min.	Temperature Rise Current Max. (mA)	DCR Max. (Ω)	SRF Typ. (MHz)
MCI0603-27NJ	27	$\pm 5\%$	10	600	0.7	2000
MCI0603-33NJ	33	$\pm 5\%$	10	600	0.8	1600
MCI0603-39NJ	39	$\pm 5\%$	10	600	0.85	1500
MCI0603-47NJ	47	$\pm 5\%$	12	600	1.0	1200
MCI0603-56NJ	56	$\pm 5\%$	12	600	1.1	1100
MCI0603-68NJ	68	$\pm 5\%$	12	600	1.2	1000
MCI0603-82NJ	82	$\pm 5\%$	12	600	1.8	850
MCI0603-R10J	100	$\pm 5\%$	12	600	2.0	750
MCI0603-R12J	120	$\pm 5\%$	8	600	2.3	700
MCI0603-R15J	150	$\pm 5\%$	8	600	2.4	650
MCI0603-R18J	180	$\pm 5\%$	8	600	2.7	550
MCI0603-R22J	220	$\pm 5\%$	8	600 </td <td>2.8</td> <td>450</td>	2.8	450

Operating Temperature : -40 ~ +100 $^{\circ}\text{C}$

Temperature rise current: the actual value of DC current when the temperature rise is $\Delta T20^{\circ}\text{C}$

Typical Electrical Characteristics:

Inductance VS. Frequency Characteristics:



Temperature Rise VS. Frequency Characteristics:

