MCI Series

High Frequency Chip Inductor(Lead Free)

Size 1608

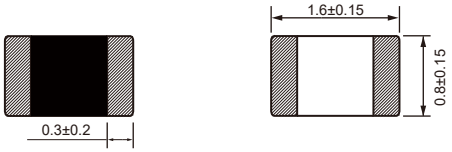
CHARACTERISTICS

- Monolithic inorganic material construction.
- Closed magnetic circuit avoids crosstalk.
- Shapes and dimensions follow E.I.A. spec.
- Available in various sizes.
- Excellent solderability and heat resistance.
- Compliant with RoHS legislation and also support lead-free soldering.
- High SRF up to 6GHz and above.
- Quantity: 4000pcs

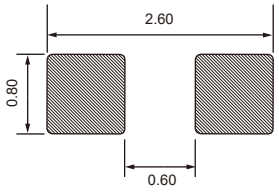
APPLICATION

- High frequency circuits
- Bluetooth
- Wireless LAN
- Filter circuits
- Oscillators

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

Part No	Inductance (nH)	Tolerance	Q@100MHz		Rated Current Max. (mA)	DCR Max. (Ω)	SRF Min. (MHz)	Test Frequency (MHz)
			Normal Value	Min.				
MCI1608-1N0S	1.0	±0.3 nH	14	8	300	0.05	10000	100
MCI1608-1N2S	1.2	±0.3 nH	14	8	300	0.05	10000	100
MCI1608-1N5S	1.5	±0.3 nH	14	8	300	0.10	6000	100
MCI1608-1N8S	1.8	±0.3 nH	10	8	300	0.10	6000	100
MCI1608-2N2S	2.2	±0.3 nH	12	8	300	0.10	6000	100
MCI1608-2N7S	2.7	±0.3 nH	13	10	300	0.10	6000	100
MCI1608-3N3J	3.3	±5%	14	10	300	0.12	6000	100
MCI1608-3N9J	3.9	±5%	13	10	300	0.14	6000	100
MCI1608-4N7J	4.7	±5%	13	10	300	0.16	4000	100
MCI1608-5N6J	5.6	±5%	14	10	300	0.18	4000	100
MCI1608-6N8J	6.8	±5%	14	10	300	0.22	4000	100
MCI1608-8N2J	8.2	±5%	14	10	300	0.24	3500	100
MCI1608-10NJ	10	±5%	14	12	300	0.26	3400	100
MCI1608-12NJ	12	±5%	14	12	300	0.28	2600	100
MCI1608-15NJ	15	±5%	15	12	300	0.32	2300	100
MCI1608-18NJ	18	±5%	15	12	300	0.35	2000	100

KOHER Electronic
4546 BATES DRIVE, YORBLINDA CA 92886 USA
714-325-4789 Contact@kohergroup.com

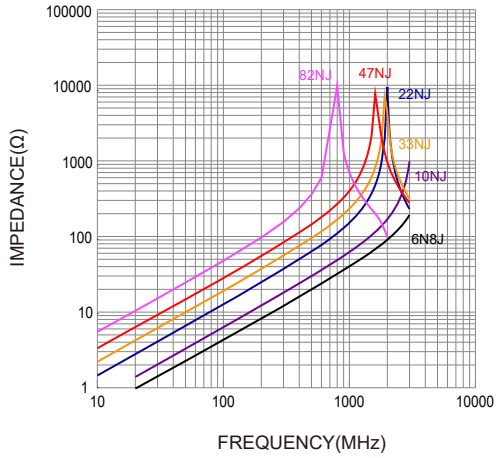
Part No	Inductance (nH)	Tolerance	Q@100MHz		Rated Current Max. (mA)	DCR Max. (Ω)	SRF Min. (MHz)	Test Frequency (MHz)
			Normal Value	Min.				
MCI1608-22NJ	22	±5%	16	12	300	0.40	1600	100
MCI1608-27NJ	27	±5%	16	12	300	0.45	1400	100
MCI1608-33NJ	33	±5%	17	12	300	0.55	1200	100
MCI1608-39NJ	39	±5%	18	12	300	0.60	1100	100
MCI1608-47NJ	47	±5%	17	12	300	0.70	900	100
MCI1608-56NJ	56	±5%	17	12	300	0.75	900	100
MCI1608-68NJ	68	±5%	18	12	300	0.85	700	100
MCI1608-82NJ	82	±5%	18	12	300	0.95	600	100
MCI1608-R10J	100	±5%	18	12	300	1.00	600	100
MCI1608-R12J	120	±5%	16	8	300	1.20	500	50
MCI1608-R15J	150	±5%	13	8	300	1.20	500	50
MCI1608-R18J	180	±5%	13	8	300	1.30	400	50
MCI1608-R22J	220	±5%	12	8	300	1.50	400	50
MCI1608-R27J	270	±5%	14	8	150	1.90	300	50

Operating Temperature : -40 ~ +85 ℃

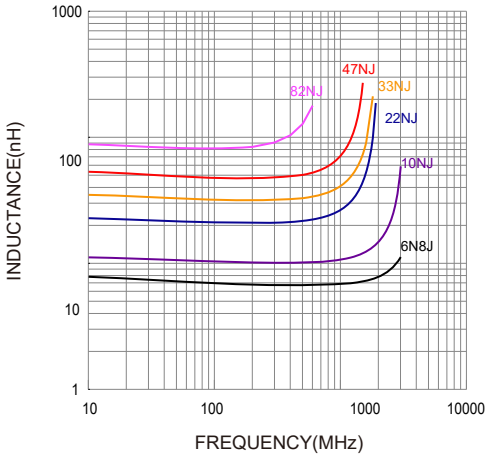
Temperature rise current: the actual value of DC current when the temperature rise is ΔT30 ℃ max.

Typical Electrical Characteristics:

Impendance VS. Frequency Characteristics:



Inductance VS. Frequency Characteristics:



Q VS. Frequency Characteristics: