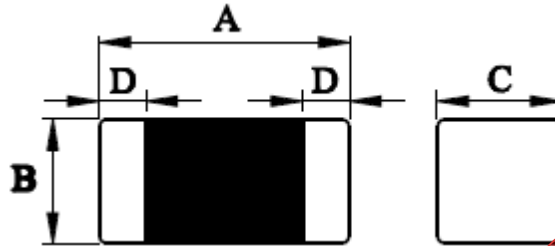


APPLICATION

Smart phones, tablet terminals, tuners, LCD-TVs, PDP-TVs, audio equipment, computers, signal processing for modules etc.

1. Shapes and Dimensions



Unit: mm

Type	A		B	C	D
MCI1608	1.60±0.15	1.80±0.15	0.80±0.15	0.80±0.15	0.30±0.20

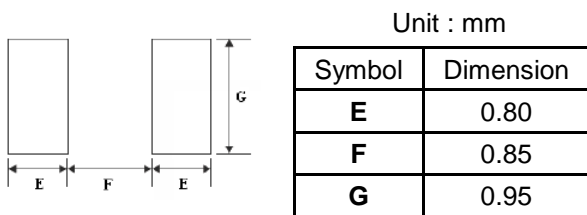
2. Ordering / Part Number Information

MCI 1608 - 1R0 □
(1) (2) (3) (4)

- (1) Product Group
- (2) Dimension Code
- (3) Inductance Code: R means decimal point
 Ex: 1R0 → 1.0μH
- (4) Inductance Tolerance
 K=±10%, M=±20%

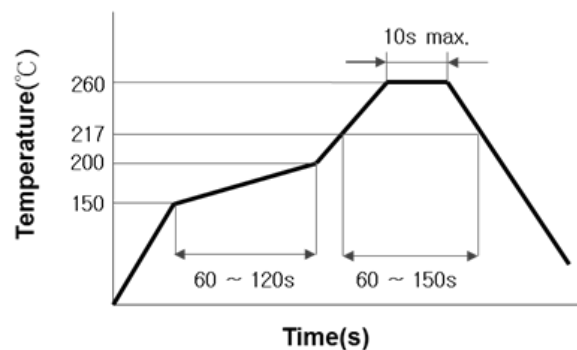
3. Recommended Soldering Condition

3-1. Recommended Land Pattern



The Recommended Land pattern is for reference only.
 Please consult your manufacturing partners to ensure your company's PCB design guidelines are met

3-2. Recommended Soldering Profile



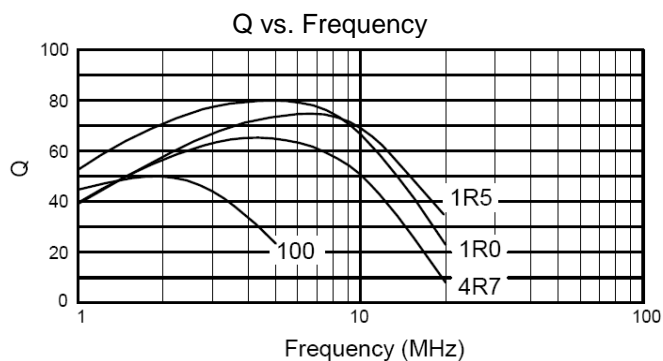
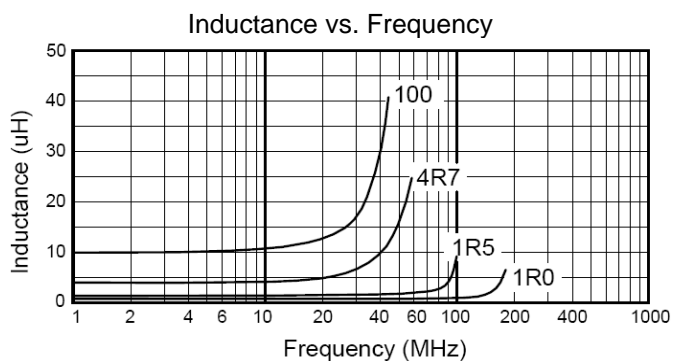
4. Electrical Characteristics

4-1. Electrical Specification

Part Number	Inductance (L)	Q Min.	L, Q Test Freq.	DC Resistance (R _{DC}) Max.	Rated Current (I _{DC}) Max.	Self-Resonant Frequency (SRF) Min.
MCI1608-47NM	0.047μH±20%	10	50MHz	0.30Ω	50mA	260MHz
MCI1608-68NM	0.068μH±20%	10	50MHz	0.30Ω	50mA	250MHz
MCI1608-82NM	0.082μH±20%	10	50MHz	0.30Ω	50mA	245MHz
MCI1608-R10K	0.100μH±10%	15	25MHz	0.50Ω	50mA	240MHz
MCI1608-R12K	0.120μH±10%	15	25MHz	0.50Ω	50mA	205MHz
MCI1608-R15K	0.150μH±10%	15	25MHz	0.60Ω	50mA	180MHz
MCI1608-R18K	0.180μH±10%	15	25MHz	0.60Ω	50mA	165MHz
MCI1608-R22K	0.220μH±10%	15	25MHz	0.80Ω	50mA	150MHz
MCI1608-R27K	0.270μH±10%	15	25MHz	0.80Ω	50mA	136MHz
MCI1608-R33K	0.330μH±10%	15	25MHz	0.85Ω	35mA	125MHz
MCI1608-R39K	0.390μH±10%	15	25MHz	1.00Ω	35mA	110MHz
MCI1608-R47K	0.470μH±10%	15	25MHz	1.35Ω	35mA	105MHz
MCI1608-R56K	0.560μH±10%	15	25MHz	1.55Ω	35mA	95MHz
MCI1608-R68K	0.680μH±10%	15	25MHz	1.70Ω	35mA	80MHz
MCI1608-R82K	0.820μH±10%	15	25MHz	2.10Ω	35mA	75MHz
MCI1608-1R0K	1.000μH±10%	30	10MHz	0.60Ω	25mA	70MHz
MCI1608-1R5K	1.500μH±10%	30	10MHz	0.80Ω	25mA	55MHz
MCI1608-1R8K	1.800μH±10%	30	10MHz	0.95Ω	25mA	50MHz
MCI1608-2R2K	2.200μH±10%	30	10MHz	1.15Ω	15mA	45MHz
MCI1608-3R3K	3.300μH±10%	30	10MHz	1.55Ω	15mA	38MHz
MCI1608-4R7K	4.700μH±10%	30	10MHz	2.10Ω	15mA	33MHz
MCI1608-100K*	10.000μH±10%	30	2MHz	2.55Ω	15mA	17MHz

Note.1 * Dimension A=1.8±0.15mm

4-2. Typical Electrical Curve



The specifications are subject to change or our products in it may be discontinued without advance notice. Please check with our sales representatives or product engineers before ordering.

4-3. Operating Temperature Range

-40°C to +105°C (Including self - temperature rise)

4-4. Storage Temperature Range

Store this product under the condition of 5°C to 40°C, 20% to 70%RH and use within 6 months

5. Package Quantity

Standard Quantity for Packaging: 4,000 pcs/Reel

Note

1. Please make sure that your product is has been evaluated and confirmed against your specifications when our product is mounted to your product.
2. Do not knock nor drop.
3. All the items and parameters in this product specification have been prescribed on the premise that our product is used for the purpose, under the condition and in the environment agreed upon between you and us. You are requested not to use our product deviating from such agreement.
4. Please keep the distance between transformer/coil and other components (refer to the standard IEC 950)