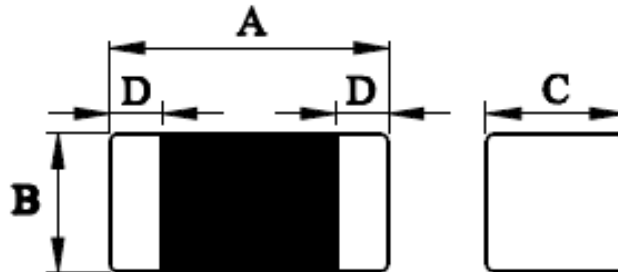


APPLICATION

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
MCI2012	2.00±0.20	1.25±0.20	0.85±0.20	1.25±0.20	0.50±0.30

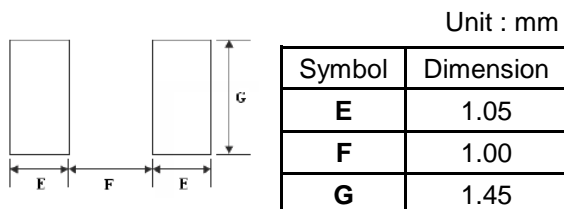
2. Ordering / Part Number Information

MCI 2012 - 1R0 K
(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%

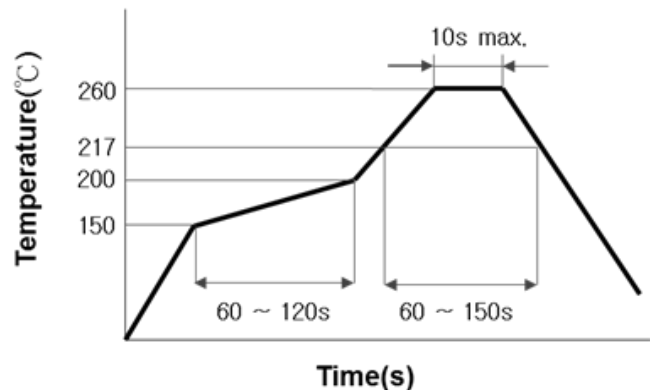
3. Recommended Soldering Condition

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	Thickness C size (mm)	Inductance (L)	Q (Min.)	Test Frequency	Self-Resonant Frequency (Min.)	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
MCI2012-R12K	0.85±0.20	0.120μH±10%	20	25MHz	220 MHz	0.30Ω	250 mA
MCI2012-R47K	1.25±0.20	0.470μH±10%	25	25MHz	125 MHz	0.65Ω	200 mA
MCI2012-R56K	1.25±0.20	0.560μH±10%	25	25MHz	115 MHz	0.75Ω	150 mA
MCI2012-R68K	1.25±0.20	0.680μH±10%	25	25MHz	105 MHz	0.80Ω	150 mA
MCI2012-1R0K	0.85±0.20	1.000μH±10%	45	10MHz	75 MHz	0.40Ω	50 mA
MCI2012-1R5K	0.85±0.20	1.500μH±10%	45	10MHz	60 MHz	0.50Ω	50 mA
MCI2012-1R8K	0.85±0.20	1.800μH±10%	45	10MHz	55 MHz	0.60Ω	50 mA
MCI2012-2R2K	0.85±0.20	2.200μH±10%	45	10MHz	50 MHz	0.65Ω	30 mA
MCI2012-2R7K	1.25±0.20	2.700μH±10%	45	10MHz	45 MHz	0.75Ω	30 mA
MCI2012-3R3K	1.25±0.20	3.300μH±10%	45	10MHz	41 MHz	0.80Ω	30 mA
MCI2012-4R7K	1.25±0.20	4.700μH±10%	45	10MHz	35 MHz	1.00Ω	30 mA
MCI2012-100K	1.25±0.20	10.000μH±10%	45	2MHz	24 MHz	1.15Ω	15 mA

4-2. Operating Temperature Range

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

4-3. 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 (Size: 201209)

Standard Quantity for Packaging: 2,000 pcs/Reel (Size: 201212)

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)