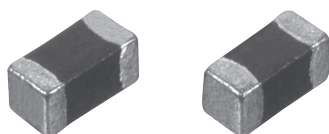




SMD Multilayer Chip Inductor

MCI Series



Features

- Monolithic inorganic material construction
- Closed magnetic circuit avoids crosstalk
- Excellent solderability and heat resistance

Application

- Noise elimination for I/O lines of notebook PCs, digital TVs and VTRs, Printers, hard disk drives, personal computers and general consumer and computers products.

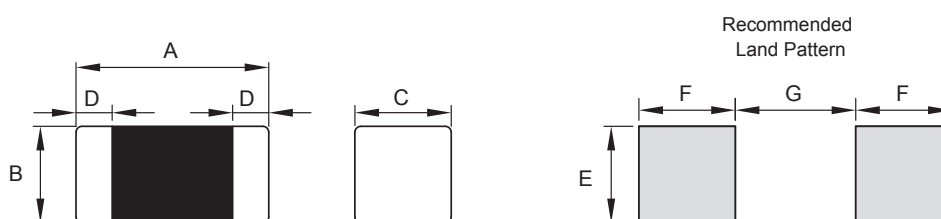
Part Numbering

MCI 1608 - 1R0 K - □ A

1 2 3 4 5 6

- 1 Product Group
- 2 Dimension Code
- 3 Inductance Code: R means decimal point
Ex: 1R0→1.0μH
- 4 Inductance Tolerance
- 5 Control Code
- 6 Automobile Code

Shapes and Dimension



Unit: mm

Type	A		B	C		D	E	F	G
MCI1608	1.60±0.15	1.80±0.15	0.80±0.15	0.80±0.15		0.30±0.20	0.95	0.80	0.85
MCI2012	2.00±0.20		1.25±0.20	0.85±0.20	1.25±0.20	0.50±0.30	1.45	1.05	1.00

General Technical Data

Operating Temperature Range	-40°C~+125°C
Storage Temperature	40°C Max. , 70%RHMax.

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SMD Multilayer Chip Inductor

MCI Series

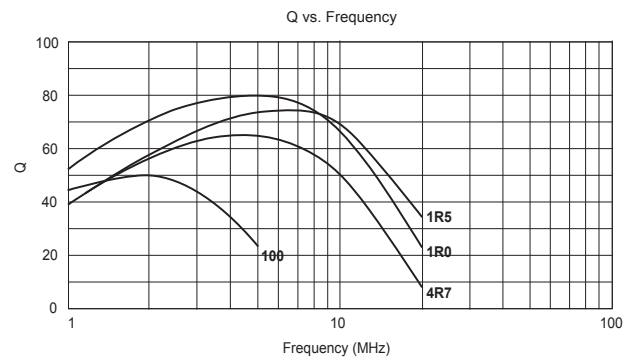
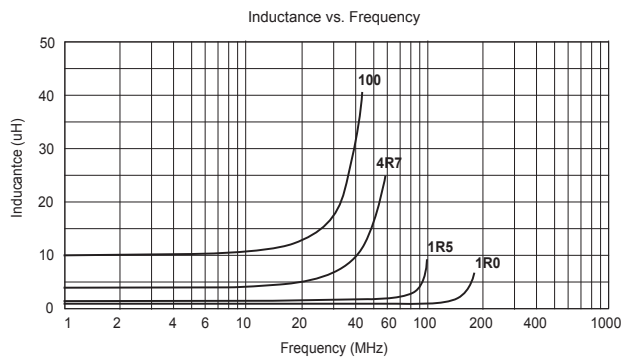
Electrical Characteristics

AEC
Q200

Part Number	Inductance	Q (Min.)	Test Frequency	Self Resonance Frequency (Min.)	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
MCI1608 Series						
MCI1608-R10K-□A	0.10μH±10%	15	25MHz	240MHz	0.50Ω	50mA
MCI1608-R15K-□A	0.15μH±10%	15	25MHz	180MHz	0.60Ω	50mA
MCI1608-R18K-□A	0.18μH±10%	15	25MHz	165MHz	0.60Ω	50mA
MCI1608-R22K-□A	0.22μH±10%	15	25MHz	150MHz	0.80Ω	50mA
MCI1608-R27K-□A	0.27μH±10%	15	25MHz	136MHz	0.80Ω	50mA
MCI1608-R33K-□A	0.33μH±10%	15	25MHz	125MHz	0.85Ω	35mA
MCI1608-R39K-□A	0.39μH±10%	15	25MHz	110MHz	1.00Ω	35mA
MCI1608-R47K-□A	0.47μH±10%	15	25MHz	105MHz	1.35Ω	35mA
MCI1608-R56K-□A	0.56μH±10%	15	25MHz	95MHz	1.55Ω	35mA
MCI1608-R68K-□A	0.68μH±10%	15	25MHz	80MHz	1.70Ω	35mA
MCI1608-R82K-□A	0.82μH±10%	15	25MHz	75MHz	2.10Ω	35mA
MCI1608-1R0K-□A	1.00μH±10%	30	10MHz	70MHz	0.60Ω	25mA
MCI1608-1R5K-□A	1.50μH±10%	30	10MHz	55MHz	0.80Ω	25mA
MCI1608-1R8K-□A	1.80μH±10%	30	10MHz	50MHz	0.95Ω	25mA
MCI1608-2R2K-□A	2.20μH±10%	30	10MHz	45MHz	1.15Ω	15mA
MCI1608-3R3K-□A	3.30μH±10%	30	10MHz	38MHz	1.55Ω	15mA
MCI1608-4R7K-□A	4.70μH±10%	30	10MHz	33MHz	2.10Ω	15mA
MCI1608-100K-□A*	10.00μH±10%	30	2MHz	17MHz	2.55Ω	15mA

* Dimension A=1.8±0.15mm

MCI1608 Series



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SMD Multilayer Chip Inductor

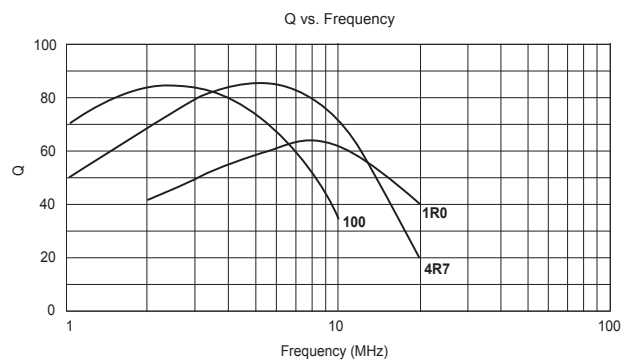
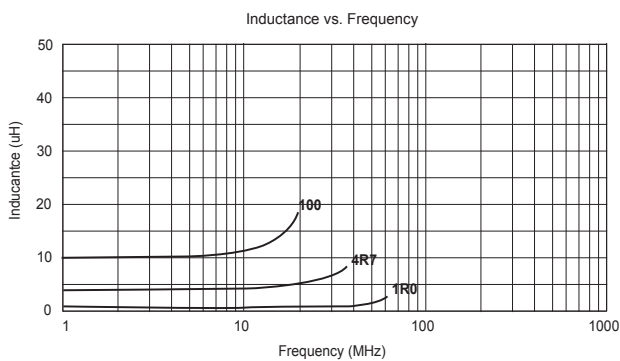
MCI Series

Electrical Characteristics

AEC
Q200

Part Number	Thickness C size (mm)	Inductance	Q (Min.)	Test Frequency	Self Resonance Frequency (Min.)	DC Resistance (RDC) Max.	Rated Current (IDC) Max.
MCI2012 Series							
MCI2012-R47K-□A	1.25±0.20	0.47μH±10%	25	25MHz	125 MHz	0.65Ω	200mA
MCI2012-R68K-□A	1.25±0.20	0.68μH±10%	25	25MHz	105 MHz	0.80Ω	150mA
MCI2012-1R0K-□A	0.85±0.20	1.00μH±10%	45	10MHz	75 MHz	0.40Ω	50mA
MCI2012-1R5K-□A	0.85±0.20	1.50μH±10%	45	10MHz	60 MHz	0.50Ω	50mA
MCI2012-1R8K-□A	0.85±0.20	1.80μH±10%	45	10MHz	55 MHz	0.60Ω	50mA
MCI2012-2R2K-□A	0.85±0.20	2.20μH±10%	45	10MHz	50 MHz	0.65Ω	30mA
MCI2012-2R7K-□A	1.25±0.20	2.70μH±10%	45	10MHz	45 MHz	0.75Ω	30mA
MCI2012-3R3K-□A	1.25±0.20	3.30μH±10%	45	10MHz	41 MHz	0.80Ω	30mA
MCI2012-4R7K-□A	1.25±0.20	4.70μH±10%	45	10MHz	35 MHz	1.00Ω	30mA
MCI2012-100K-□A	1.25±0.20	10.00μH±10%	45	2MHz	24 MHz	1.15Ω	15mA

MCI2012 Series



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