

Multilayer Ferrite Chip Beads (Ultra-High Frequency)

Features

- Monolithic structure for closed magnetic path and high reliability
- Standard EIA/EIAJ chip size 0603/1608
- High impedance at high frequencies up to 1 GHz range
- Superior termination bonding strength
- Nickel barrier with solder overplated termination offering excellent solderability and solder leach resistance, suitable for both wave and reflow soldering processes
- RoHS compliant when -T option is specified

Applications

- Ultra-high frequency noise suppression in computers and peripherals
- Ultra-high frequency noise suppression in telecommunications
- Ultra-high frequency noise suppression in data communications
- Ultra-high frequency noise suppression in consumer electronics

Recommended PC Board Land Patterns

CHIP SIZE EIA/EIAJ	A INCH (mm)	B INCH (mm)	C INCH (mm)
0603/1608	0.102 (2.60)	0.022 (0.55)	0.037 (0.94)

Operating Temperature

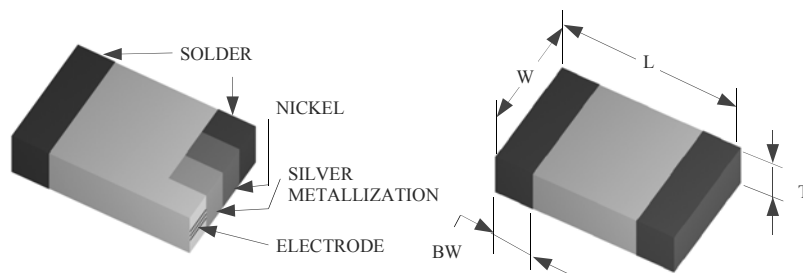
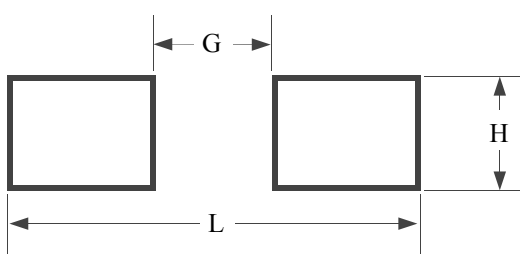
-55°C — +125°C

Product Identification

MCB 0603 U 102 P I - I
(1) (2) (3) (4) (5) (6) (7)

- (1) Series code:
MCB: Multilayer Ferrite Chip Bead
- (2) Dimensions: L x W inches
The first two digits: L (length)
The last two digits: W (width)
- (3) Characteristic code: U, B
- (4) Value code: Impedance (ohms at 100 MHz)
The first two digits are significant. The last digit specifies the number of zeros to follow.
- (5) Tolerance code:
P = $\pm 25\%$
Other tolerances may be available upon request.
- (6) Package code:
T = Tape & Reel
B = Bulk
- (7) Termination type code:
T = 100% Sn Plating

Shape and Dimensions



CHIP SIZE EIA/EIAJ	LENGTH (L) INCH (mm)	WIDTH (W) INCH (mm)	THICKNESS (T) INCH (mm)	TERMINATION (BW) INCH (mm)
0603/1608	0.063 \pm 0.006 (1.60 \pm 0.15)	0.031 \pm 0.006 (0.80 \pm 0.15)	0.031 \pm 0.006 (0.80 \pm 0.15)	0.014 \pm 0.006 (0.36 \pm 0.15)

Other sizes and values may be available upon customer's request.

MCB Series (Ultra-High Frequency)

<i>AEM Part Number</i>	<i>Z@100Mz Ω</i>	<i>Tolerance</i>	<i>Max. R_{DC} Ω</i>	<i>Max. I A</i>
MCB0603U471	470	P	0.85	0.2
MCB0603U601	600	P	1.00	0.2
MCB0603U102	1000	P	1.60	0.1

Please add tolerance, packaging and termination type codes when ordering.

Electrical Characteristics

(Curves not listed are available upon request)

