

Multilayer Ferrite Power Beads

Features

- Monolithic structure for closed magnetic path and high reliability.
- Maximum permissible currents: 500-3000 mA.
- Standard EIA/EIAJ chip sizes such as 0603/1608, 0805/2012, 1206/3216 and 1806/4516.
- A complete set of ferrite and electrode materials provide a wide range of electrical properties.
- Superior termination bonding strength.
- Nickel barrier with solder overplated termination offers excellent solderability and solder leach resistance.
- Suitable for both wave and reflow soldering processes.

Applications

- Noise suppression in computers and peripherals.
- Noise suppression in telecommunications.
- Noise suppression in data communications.
- Noise suppression in consumer electronics.

Operating Temperature

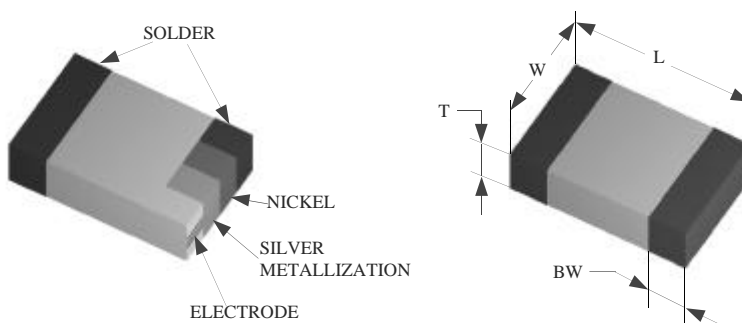
-55°C — +125°C

Product Identification

MCP 0805 F 100 P T
 (1) (2) (3) (4) (5) (6)

- (1) Series code:
MCP: Multilayer Ferrite Power Bead
- (2) Dimensions L x W inches
The first two digits: length
The last two digits: width
- (3) Characteristic code: F, P
- (4) Value code: Impedance (Ohm at 100 MHz)
The first two digits are significant, the last digit specifies the number of zeros to follow.
- (5) Tolerance code:
M = ±20%
P = ±25%
- (6) Package code:
T = Tape & Reel
B = Bulk

Shape and Dimensions



SIZE EIA/EIAJ	LENGTH (L) INCH (mm)	WIDTH (W) INCH (mm)	THICKNESS (T) INCH (mm)	TERMINATION (BW) INCH (mm)
0603/1608	0.063 ± 0.006 (1.60 ± 0.15)	0.031 ± 0.006 (0.80 ± 0.15)	0.031 ± 0.006 (0.80 ± 0.15)	0.014 ± 0.006 (0.36 ± 0.15)
0805/2012	0.079 ± 0.008 (2.00 ± 0.20)	0.049 ± 0.008 (1.25 ± 0.20)	0.035 ± 0.008 (0.90 ± 0.20)	0.020 ± 0.010 (0.51 ± 0.25)
1206/3216	0.126 ± 0.008 (3.20 ± 0.20)	0.063 ± 0.008 (1.60 ± 0.20)	0.043 ± 0.008 (1.10 ± 0.20)	0.020 ± 0.010 (0.51 ± 0.25)
1806/4516	0.177 ± 0.010 (4.50 ± 0.25)	0.063 ± 0.010 (1.60 ± 0.25)	0.063 ± 0.010 (1.60 ± 0.25)	0.020 ± 0.010 (0.51 ± 0.25)

**Other sizes such as 1210/3225, 1812/4532, 2220/5750, 2520/6350
and other values are available upon customer's request.**

MCP Series (for high current)

<i>AEM Part Number</i>	<i>Impedance Ohm at 100 MHz</i>	<i>Max. DCR Ohm</i>	<i>Max. Current mA</i>
MCP0603F300	30	0.06	1000
MCP0603F600	60	0.1	500
MCP0805F070	7	0.02	3000
MCP0805F100	10	0.02	3000
MCP0805F110	11	0.025	3000
MCP0805F150	15	0.025	3000
MCP0805F300	30	0.025	3000
MCP0805F400	40	0.03	2000
MCP0805F450	45	0.03	2000
MCP0805F800	80	0.1	1000
MCP0805F201	200	0.15	1000
MCP0805F301	300	0.15	1000
MCP0805F601	600	0.2	1000
MCP1206F190	19	0.02	3000
MCP1206F260	26	0.02	3000
MCP1206F300	30	0.02	3000
MCP1206F310	31	0.02	3000
MCP1206F500	50	0.025	3000
MCP1206F700	70	0.03	2000
MCP1206F800	80	0.03	2000
MCP1206F900	90	0.1	1000
MCP1206F121	120	0.1	1000
MCP1206F601	600	0.2	1000
MCP1206P601	600	0.1	1500

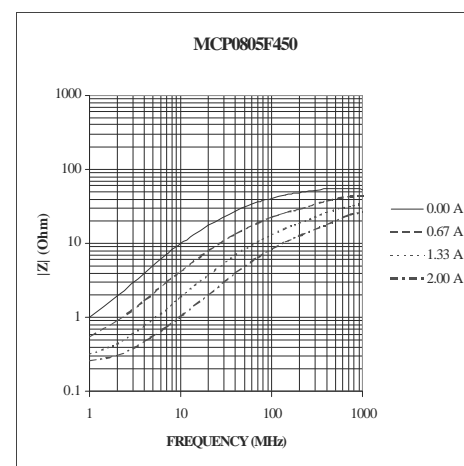
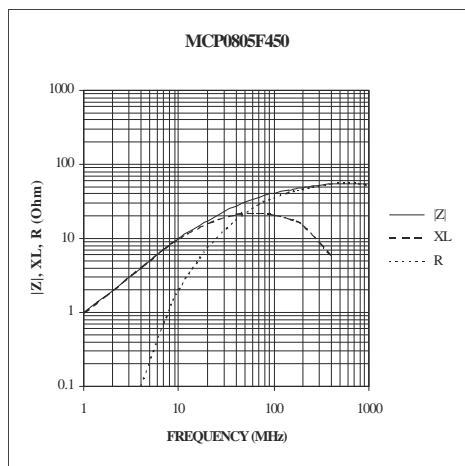
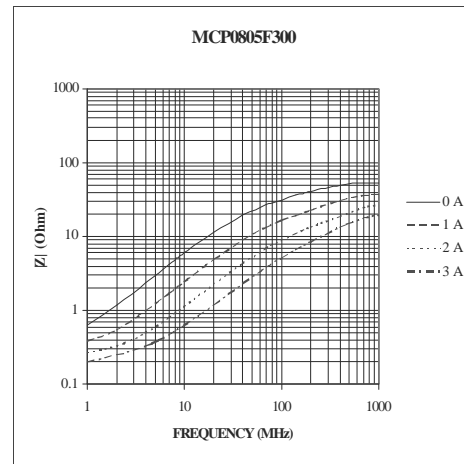
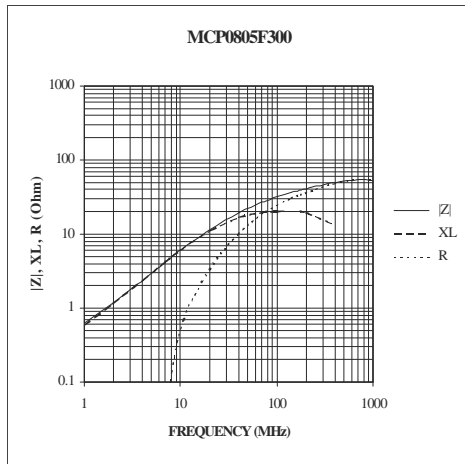
Definition of rated current: When the rated current is applied to a power bead, its temperature rise shall not exceed 20°C.

Other values are available upon customer's request. Please add tolerance and packaging code to part number when ordering.

Electrical Characteristics

(Curves not listed are available upon request)

Typical Impedance characteristics (0805/1608 series)



Electrical Characteristics

Typical Impedance characteristics (1206/3216 series)

