

TDK Chip Beads / MPZ Series

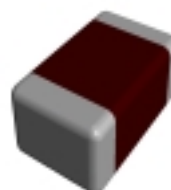
FEATURES

- The MPZ series are multilayer chip impeders for power supply line applications.
- High miniaturized, these parts nonetheless exhibit low DC resistance and high current handling capability.

APPLICATION

Noise suppression of personal computers, USB/IEEE1394 interfaces, HDDs, CD-ROMs, DVDs, DSCs, LCD panels, cellular phones, etc.

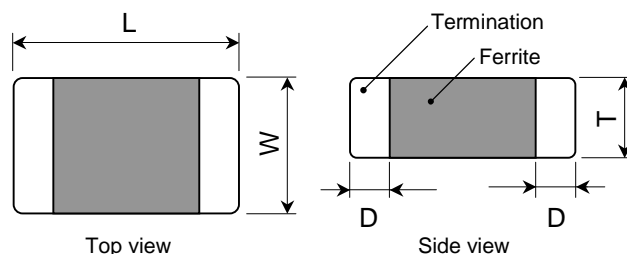
SHAPES AND DIMENSIONS



PRODUCT IDENTIFICATION

MPZ 1608 S 221 A T
 (1) (2) (3) (4) (5) (6)

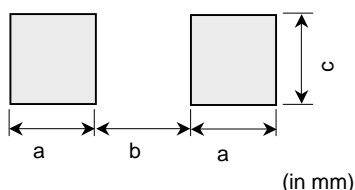
- (1) Series name
- (2) Case size
- (3) Ferrite material
S : Generic
- (4) Impedance(at 100MHz)
221 : 220Ω
- (5) Characteristic type
- (6) Packaging style
T : Taping Ø180mm reel



(in mm)

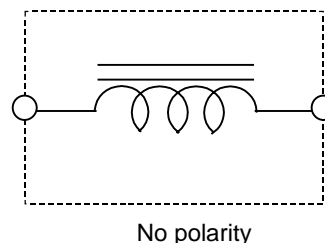
Type	L	W	T	D
MPZ1608 (S300A,S600A,S101A)	1.6±0.15	0.8±0.15	0.6±0.15	0.3±0.2
MPZ1608 (S221A,S601A)	1.6±0.15	0.8±0.15	0.8±0.15	0.3±0.2
MPZ2012	2.0+0.3 -0.1	1.25±0.2	0.85±0.2	0.5±0.3

RECOMMENDED PATTERN DIMENSIONS



Type	a	b	c
MPZ1608	0.6	0.8	0.8
MPZ2012	0.8	1.0	1.2

EQUIVALENT CIRCUIT



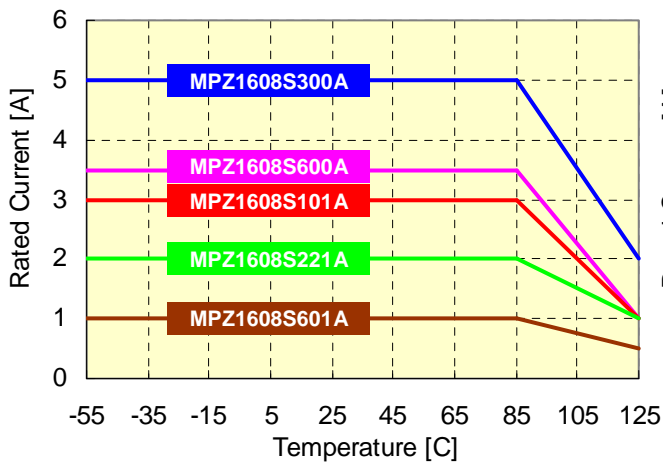
ELECTRICAL CHARACTERISTICS

Operating temperature range : -55C to +85C

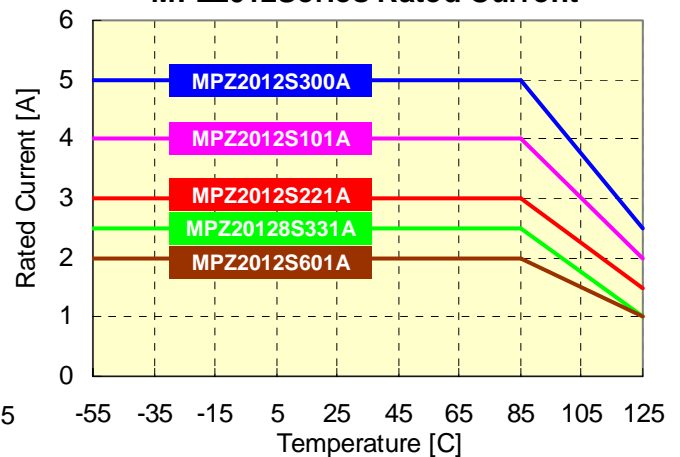
ITEM	Z @100MHz [ohm]	Z @100MHz (Typ)	RDC MAX [ohm]	IDC MAX [A]
MPZ1608S300A	20 min.	30	0.01	5.0
MPZ1608S600A	45 min.	60	0.02	3.5
MPZ1608S101A	75 min.	100	0.03	3.0
MPZ1608S221A	165 min	220	0.05	2.0
MPZ1608S601A	450min	600	0.15	1.0
MPZ2012S300A	20 min.	30	0.01	5.0
MPZ2012S101A	75 min.	100	0.02	4.0
MPZ2012S221A	165 min.	220	0.04	3.0
MPZ2012S331A	250 min	330	0.05	2.5
MPZ2012S601A	450 min	600	0.10	2.0

IDC for Operating temperature range (-55C to +125C)

MPZ1608Series Rated Current

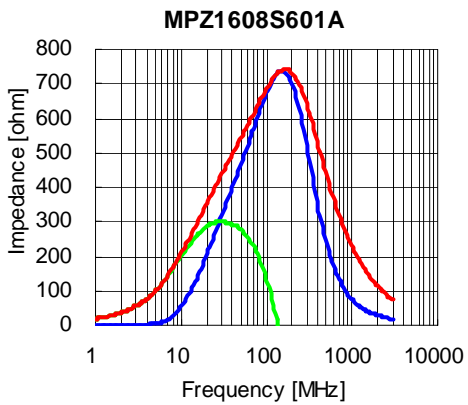
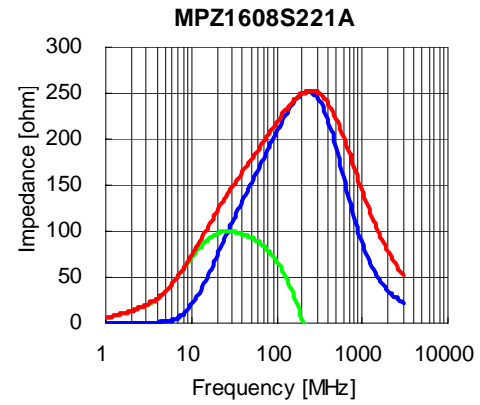
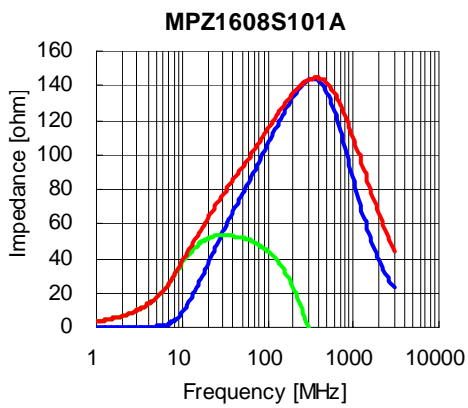
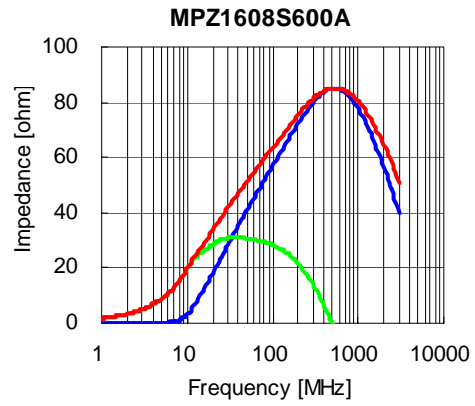
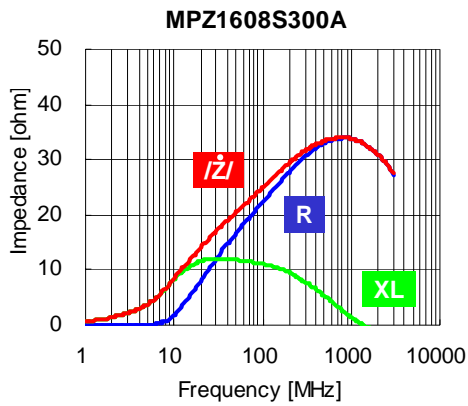


MPZ2012Series Rated Current



$|Z|, R, XL$ vs. FREQUENCY CHARACTERISTICS

1608



$|Z|, R, XL$ vs. FREQUENCY CHARACTERISTICS

2012

