

# MPZ Auto Series Ferrite Bead Kit

## Automotive Grade Ferrite Power Chip Bead Kit



The TDK MPZ Series ferrite power chip beads are used to suppress noise in **power** supply circuits. They are effective at reducing noise simply by being placed into the circuit in series. Multilayer chip beads consist of ferrite material and a conductive paste layered together. Static characteristics of a chip bead are typically described as the impedance value Z at a frequency of 100MHz. While several different chip beads could have the same impedance value at 100MHz, it is important to look at their individual frequency characteristics to determine which bead will work best for the circuit within the required frequency range. TDK offers several material types which provide various frequency characteristics for the MPZ series chip beads.

### Features

- Noise reduction solution for power line
- Has low direct current resistance for compatibility with large currents, optimal for low power consumption
- Conforms to RoHS directive, halogen free, & compatible with lead-free soldering
- Standard operating temperature range of  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$
- Storage temperature range of  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$  (after PC board mounting)

### Applications

- Various ECUs
- Powertrains
- Body Controls
- Car Multimedia (Telematics)

Automotive

AEC-Q200

Power Line



[MPZ1608 Datasheet](#)

[MPZ2012 Datasheet](#)

## MPZ Auto Series Ferrite Chip Bead Kit Includes:

Case Size	Impedance	DC Resistance	Current Rating	Pieces/Reel	Kit Quantity
1608	26-1000 $\Omega$	0.007-0.300 $\Omega$ max.	6.0-0.8A max.	4,000	20 pieces per value
2012	30-1000 $\Omega$	0.010-0.150 $\Omega$ max.	6.0-1.5A max.	4,000	20 pieces per value

Now Available at:



[445-173105-KIT-ND](#)

Click the links above for ordering information.

## MPZ Auto Series Ferrite Chip Bead Kit Includes:

Digi-Key Part Number	TDK Item List	Item Description
445-173105-KIT-ND	MPZ1608B471ATD25	1608, Bead, 470Ω, ±25%
	MPZ1608S260ATDH5	1608, Bead, 26Ω, ±25%
	MPZ1608S300ATDH5	1608, Bead, 30Ω, ±10Ω
	MPZ1608S600ATDH5	1608, Bead, 60Ω, ±25%
	MPZ1608S101ATDH5	1608, Bead, 100Ω, ±25%
	MPZ1608S121ATDH5	1608, Bead, 120Ω, ±25%
	MPZ1608S181ATDH5	1608, Bead, 180Ω, ±25%
	MPZ1608S221ATD25	1608, Bead, 220Ω, ±25%
	MPZ1608S331ATD25	1608, Bead, 330Ω, ±25%
	MPZ1608S471ATD25	1608, Bead, 470Ω, ±25%
	MPZ1608S601ATD25	1608, Bead, 600Ω, ±25%
	MPZ1608S102ATD25	1608, Bead, 1000Ω, ±25%
	MPZ1608R391ATD25	1608, Bead, 390Ω, ±25%
	MPZ1608Y600BTD25	1608, Bead, 60Ω, ±25%
	MPZ1608Y101BTD25	1608, Bead, 100Ω, ±25%
	MPZ1608Y151BTD25	1608, Bead, 150Ω, ±25%
	MPZ1608Y221BTD25	1608, Bead, 220Ω, ±25%
	MPZ1608D300BTD25	1608, Bead, 30Ω, ±10Ω
	MPZ1608D600BTD25	1608, Bead, 60Ω, ±25%
	MPZ1608D101BTD25	1608, Bead, 100Ω, ±25%
	MPZ2012S300ATD25	2012, Bead, 30Ω, ±10Ω
	MPZ2012S101ATD25	2012, Bead, 100Ω, ±25%
	MPZ2012S221ATD25	2012, Bead, 220Ω, ±25%
	MPZ2012S331ATD25	2012, Bead, 330Ω, ±25%
	MPZ2012S601ATD25	2012, Bead, 60Ω, ±25%
	MPZ2012S102ATD25	2012, Bead, 1000Ω, ±25%