

MMZ1005 Series Ferrite Bead Kit

Automotive Grade Ferrite Chip Bead Kit



The TDK MMZ1005 Series ferrite chip beads are used to suppress noise in signal line 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 provide 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 MMZ1005 series chip beads.

Features

- AEC-Q200 Qualified
- Noise reduction solution for general signal line
- Various frequency characteristics with different materials
- Countermeasures from general signals to high-speed signals
- Conforms to RoHS directive, halogen free, & compatible with lead-free soldering
- Standard operating temperature range of -55°C to $+125^{\circ}\text{C}$
- Storage temperature range of -55°C to $+125^{\circ}\text{C}$ (after PC board mounting)

Applications

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

Automotive

General Signal Line



[Datasheet](#)

MMZ1005 Series Automotive Chip Bead Kit Includes:

Case Size: 1005 (1.0x0.5mm)
Impedance Range: 10-1800 Ω ($\pm 25\%$)
Current Rating: 100-550mA

Kit contains 260 pieces total—10 pieces per value

Now Available at:



[445-174586-KIT-ND](#)

Click the links above for ordering information.

MMZ1005 Series Automotive Chip Bead Kit Includes:

Digi-Key Part Number	TDK Part Number	Case Size Impedance Value Tol
445-174586-KIT-ND	MMZ1005B800CTD25	1005, Bead, 80Ω±25%
	MMZ1005B121CTD25	1005, Bead, 120Ω±25%
	MMZ1005B601CTD25	1005, Bead, 600Ω±25%
	MMZ1005S800CTD25	1005, Bead, 80Ω±25%
	MMZ1005S121CTD25	1005, Bead, 120Ω±25%
	MMZ1005S241CTD25	1005, Bead, 240Ω±25%
	MMZ1005S601CTD25	1005, Bead, 600Ω±25%
	MMZ1005S102CTD25	1005, Bead, 1000Ω±25%
	MMZ1005Y400CTD25	1005, Bead, 40Ω±25%
	MMZ1005Y121CTD25	1005, Bead, 120Ω±25%
	MMZ1005Y241CTD25	1005, Bead, 240Ω±25%
	MMZ1005Y301CTD25	1005, Bead, 300Ω±25%
	MMZ1005Y471CTD25	1005, Bead, 470Ω±25%
	MMZ1005Y601CTD25	1005, Bead, 600Ω±25%
	MMZ1005Y102CTD25	1005, Bead, 1000Ω±25%
	MMZ1005Y152CTD25	1005, Bead, 1500Ω±25%
	MMZ1005Y182CTD25	1005, Bead, 1800Ω±25%
	MMZ1005D100CTD25	1005, Bead, 10Ω±5%
	MMZ1005D220CTD25	1005, Bead, 22Ω±25%
	MMZ1005D330CTD25	1005, Bead, 33Ω±25%
	MMZ1005D680CTD25	1005, Bead, 68Ω±25%
	MMZ1005D121CTD25	1005, Bead, 120Ω±25%
	MMZ1005D241CTD25	1005, Bead, 240Ω±25%
	MMZ1005F330CTD25	1005, Bead, 33Ω±25%
	MMZ1005F470CTD25	1005, Bead, 47Ω±25%
	MMZ1005F560CTD25	1005, Bead, 56Ω±25%