



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](https://www.digikey.com/product-detail/en/tdk/MMZ1005-ND/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% | |