



## MMZ1005 Series Ferrite Bead Kit



### GHz Noise & High-Speed Consumer 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

- Increased SRF to GHz bands to countermeasure noise at wide frequencies with one element
- Achieves high impedance at GHz bands
- Various frequency characteristics with different materials
- 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)

High-Speed Signal Line

Consumer



[MMZ1005-V Datasheet](#)

[MMZ1005-E Datasheet](#)

#### Applications

- Smartphones and Tablets
- Wireless Communication—LTE or WiFi
- PCs and Recorders
- STBs
- Smart Grids
- Industrial Equipment

### MMZ1005 Series GHz Noise & High-Speed Ferrite Chip Bead Kit Includes:

**Case Size:** 1005 (1.0 x 0.5mm)  
**Impedance Range:** 47-2200 $\Omega$  ( $\pm 25\%$ )  
**Current Rating:** 150-300mA

Kit contains 160 pieces total—10 pieces per value

Now Available at:



[445-174585-KIT-ND](#)

*Click the links above for ordering information.*

**MMZ1005 Series GHz Noise & High-Speed Ferrite Chip Bead Kit Includes:**

Digi-Key Part Number	TDK Item List	Item Description
445-174585-KIT-ND	MMZ1005S601ET000	1005, Bead, 600Ω±25%
	MMZ1005S102ET000	1005, Bead, 1000Ω±25%
	MMZ1005S182ET000	1005, Bead, 1800Ω±25%
	MMZ1005A601ET000	1005, Bead, 600Ω±25%
	MMZ1005A102ET000	1005, Bead, 1000Ω±25%
	MMZ1005A152ET000	1005, Bead, 1500Ω±25%
	MMZ1005A182ET000	1005, Bead, 1800Ω±25%
	MMZ1005A222ET000	1005, Bead, 2200Ω±25%
	MMZ1005D121ET000	1005, Bead, 120Ω±25%
	MMZ1005D221ET000	1005, Bead, 220Ω±25%
	MMZ1005F470ET000	1005, Bead, 47Ω±25%
	MMZ1005F750ET000	1005, Bead, 75Ω±25%
	MMZ1005F121ET000	1005, Bead, 120Ω±25%
	MMZ1005AFZ750VT000	1005, Bead, 75Ω±25%
	MMZ1005AFZ151VT000	1005, Bead, 150Ω±25%
	MMZ1005AFZ181VT000	1005, Bead, 180Ω±25%