This NiZn is our most popular ferrite for suppression of conducted EMI from 20 MHz to 250 MHz. This material is also used for inductive applications such as high frequency common-mode chokes.

Available in 43 material:

EMI Suppression Beads Beads On Leads SM beads Multi-Aperture Cores Round Cable EMI Suppression Cores Round Cable Snap-Its Flat Cable EMI Suppression Cores Flat Cable Snap-Its Miscellaneous Suppression Cores Bobbins Toroids

43 Material Characteristics

Property	Unit	Symbol	Value
Initial Permeability@ B < 10 gauss		μ _i	800
Flux Density @ Field Strength	Gauss Oersted	B H	3500 10
Residual Flux Density	Gauss	Br	2200
Coercive Force	Oersted	H _c	0.36
Loss Factor @ Frequency	10 ⁻⁶ MHz	Tan δ/ μ _i	100 1.0
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		1.25
Curie Temperature	°C	T _c	>130
Resistivity	ohm-cm	ρ	1×10 ⁵

**** Characteristic curves are measured on standard Toroids (18/10/6 mm) at 25°C and 10 kHz unless otherwise indicated. Impedance characteristics are measured on standard shield beads (3.5/1.3/6.0 mm) unless otherwise indicated.

Material Safety Data Sheet (MSDS)

Click here to download Complex Permeability vs. Frequency (CSV)







43 Material Impedance derating with Temperature

Ferrite Material Constants

Specific Heat Thermal Conductivity Coefficient of Linear Expansion Tensile Strength Compressive Strength 0.25 cal/g/°C 3.5 - 4.5 mW/cm-°C 8 - 10x10⁻⁶/°C 4.9 kgf/mm² 42 kgf/mm² Young's Modulus $15 \times 10^3 \text{kgf/mm}^2$ Hardness (Knoop)650Specific Gravity $\approx 4.7 \text{ g/cm}^3$ The above quoted properties are typical for Fair-Rite MnZn and NiZnferrites.