A high frequency NiZn ferrite developed for a range of inductive applications up to 25 MHz. This material is also used in EMI applications for suppression of noise frequencies above 200 MHz. Excellent stability characteristics.

Strong magnetic fields or excessive mechanical stresses may result in irreversible changes in permeability and losses.

Available in 61 material: EMI Suppression Beads Beads On Leads SM beads Wound Beads Multi-Aperture Cores Round Cable Snap-Its Toroids Rods Antenna/RFID Rods Round EMI Suppression Cores

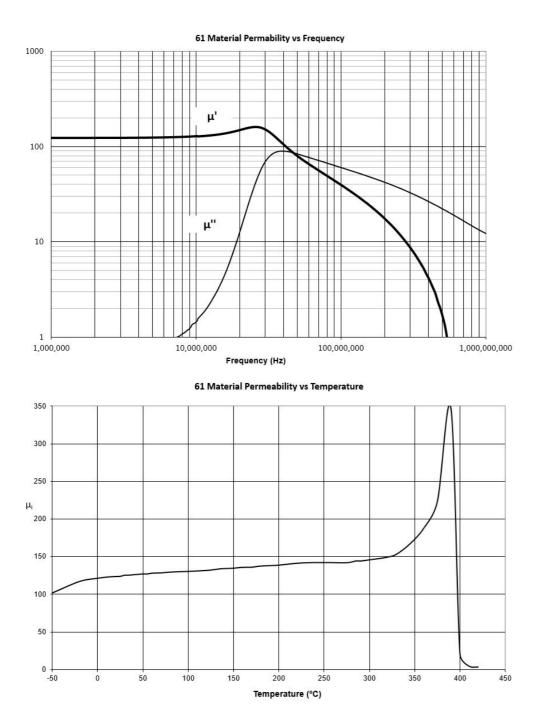
## **61 Material Characteristics**

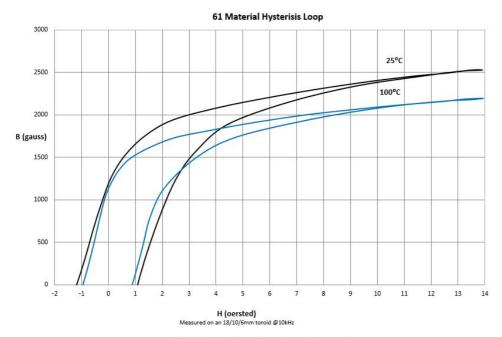
Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ <sub>i</sub>	125
Flux Density @ Field Strength	Gauss Oersted	B H	2500 15
Residual Flux Density	Gauss	B <sub>r</sub>	1000
Coercive Force	Oersted	H <sub>c</sub>	1.2
Loss Factor @ Frequency	10 <sup>-6</sup> MHz	Tan δ/ μ <sub>i</sub>	10 10
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		.10
Curie Temperature	°C	T <sub>c</sub>	>300
			-

\*\*\*\* 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.

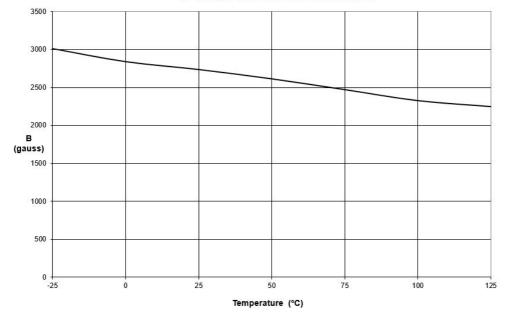
## Material Safety Data Sheet (MSDS)

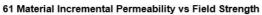
Click here to download Complex Permeability vs. Frequency (CSV)

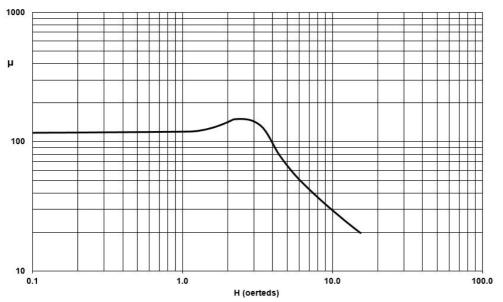


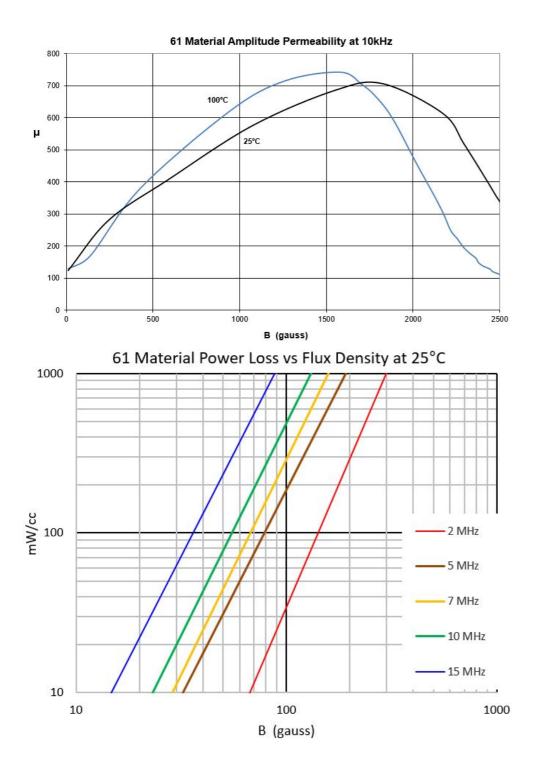


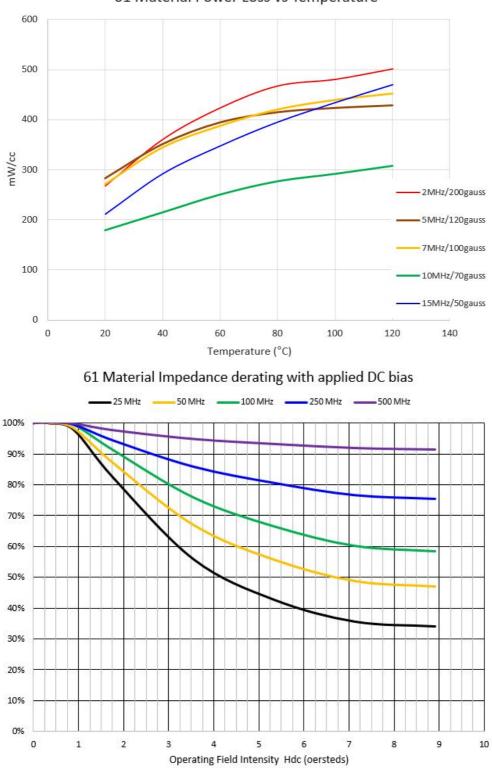
61 Material Flux Density vs Temperature



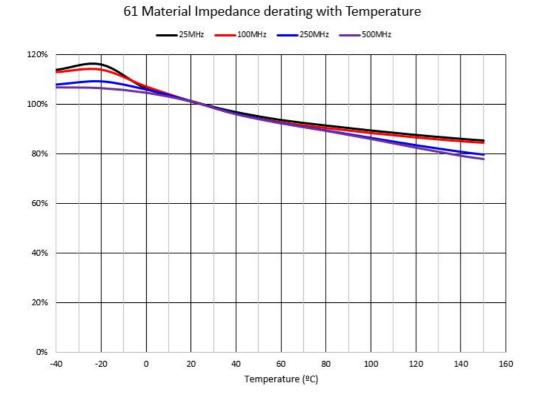








61 Material Power Loss vs Temperature



Click here to download 61 Material Power Loss Density vs. Flux Density at  $25^{\circ}$ C

## **Ferrite Material Constants**

Specific Heat	0.25 cal/g/°C		
Thermal Conductivity	3.5 - 4.5		
	mW/cm-°C		
Coefficient of Linear Expansion	8 - 10x10 <sup>-6</sup> /°C		
Tensile Strength	4.9 kgf/mm <sup>2</sup>		
Compressive Strength	42 kgf/mm <sup>2</sup>		
Young's Modulus	15x10 <sup>3</sup> kgf/mm <sup>2</sup>		
Hardness (Knoop)	650		
Specific Gravity	≈4.7 g/cm <sup>3</sup>		
The above quoted properties are typical for Fair-Rite MnZn and NiZn ferrites.			