

68 Material

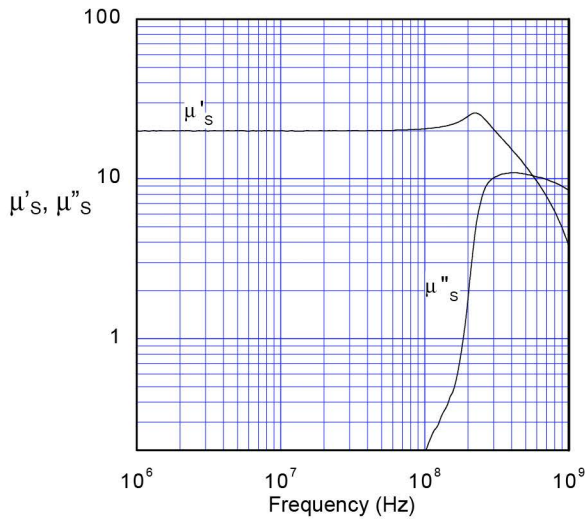
A permivar NiZn ferrite designed for high frequency applications (up to 100 MHz) including broadband transformers, antennas and high Q inductors.

Specifications

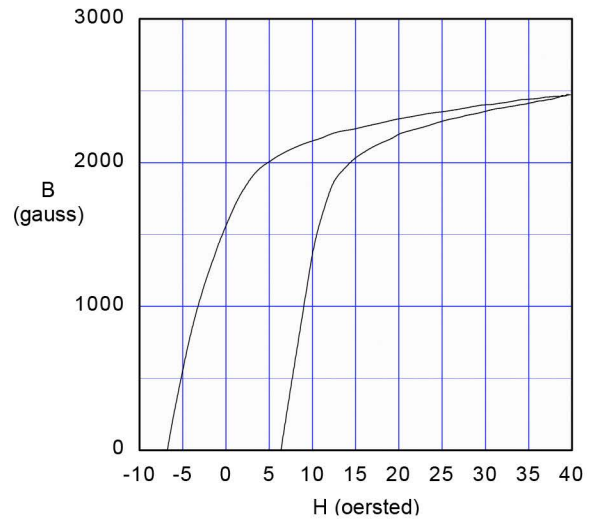
Property	Unit	Symbol	Standard Test Conditions	Value
Initial Permeability		μ_i	Frequency=10 kHz; B<10 gauss	20 ± 20%
Saturation Flux Density	gauss	B_s	H=40 oersted	≈ 2500
Residual Flux Density	gauss	B_r		≈ 700
Coercive Force	oersted	H_c		≈ 7
Loss Factor	10^{-6}	$\text{Tan}\delta/\mu_i$	Frequency=100 MHz; B=1gauss	≤ 500
Temperature Coefficient of Initial Permeability (20-70°C)	%/°C			≤ 0.15
Volume Resistivity	Ω cm	ρ		≈ 10^7
Curie Temperature	°C	T_c		> 500

Note: values are typical and based on measurements of a standard toroid at 25 °C

Complex Permeability vs. Frequency



B – H Loop



Initial Permeability vs. Temperature

