Amidon, inc.
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4A3
Material

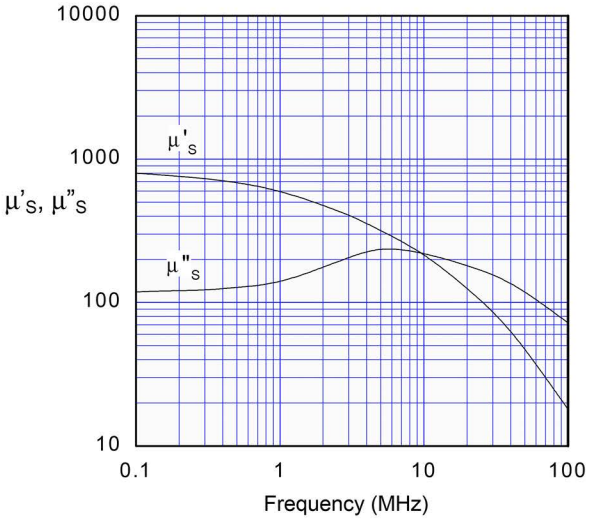
A NiZn ferrite designed for EMI suppression from 20 MHz to 250 MHz, as well as for inductive applications including high frequency common-mode chokes.

Specifications

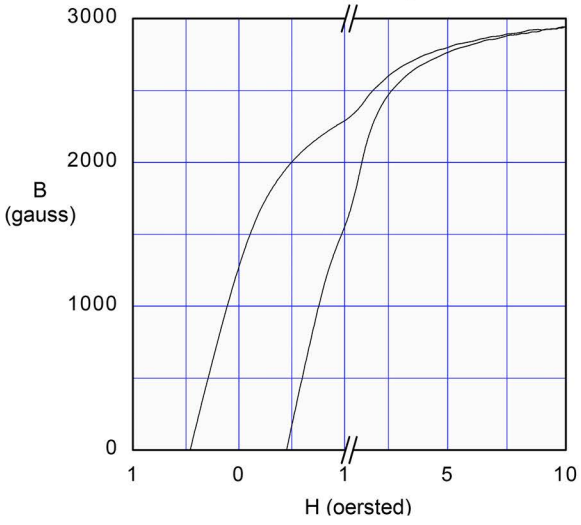
Property	Unit	Symbol	Standard Test Conditions	Value
Initial Permeability		μ_i	Frequency=10 kHz; B<10 gauss	850 ± 20%
Saturation Flux Density	gauss	B_S	H=10 oersted	≈ 2950
Residual Flux Density	gauss	B_r		≈ 1300
Coercive Force	oersted	H_C		≈ 0.45
Loss Factor	10^{-6}	$Tan\delta/\mu_i$	Frequency=1 MHz; B=1 gauss	≤ 250
Temperature Coefficient of Initial Permeability (20-70°C)	%/°C			≤ 1.25
Volume Resistivity	Ω cm	ρ		≈ 10^5
Curie Temperature	°C	T_C		≥ 135

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

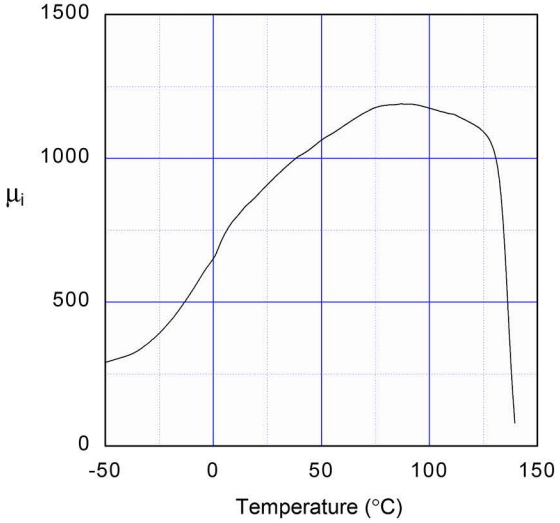
Complex Permeability vs. Frequency



B – H Loop



Initial Permeability vs. Temperature



Change of Impedance vs. Temperature