



NATIONAL MAGNETICS GROUP, INC.

MANUFACTURERS OF MAGNETIC AND ADVANCED MATERIALS

AFFILIATE: TCI CERAMICS, INC.

H

Material

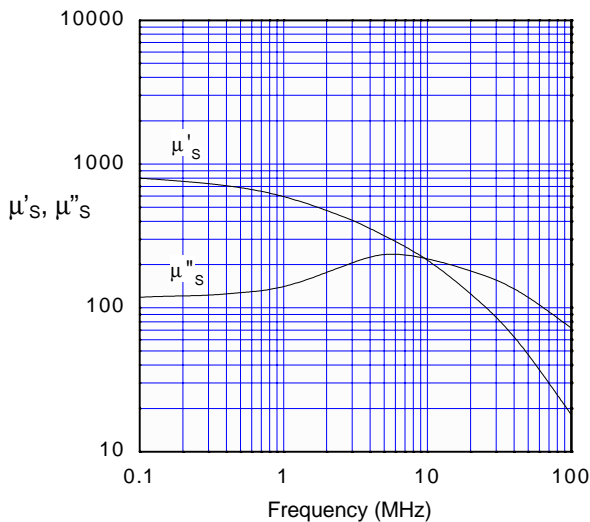
A NiZn ferrite designed for EMI suppression from 20 MHz to 250 MHz, as well as for inductive applications including high frequency common-mode chokes.

Specifications

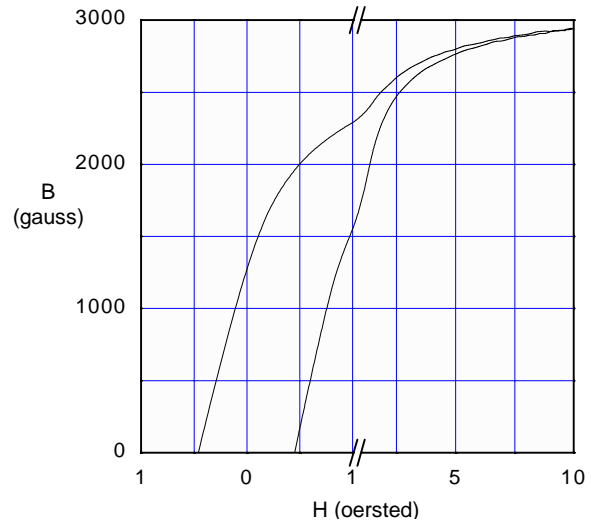
Property	Unit	Symbol	Standard Test Conditions	Value
Initial Permeability		μ_i	Frequency=10 kHz; B<10 gauss	850 \pm 20%
Saturation Flux Density	gauss	B_s	H=10 oersted	\approx 2950
Residual Flux Density	gauss	B_r		\approx 1300
Coercive Force	oersted	H_c		\approx 0.45
Loss Factor	10^{-6}	$\text{Tan}\delta/\mu_i$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

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

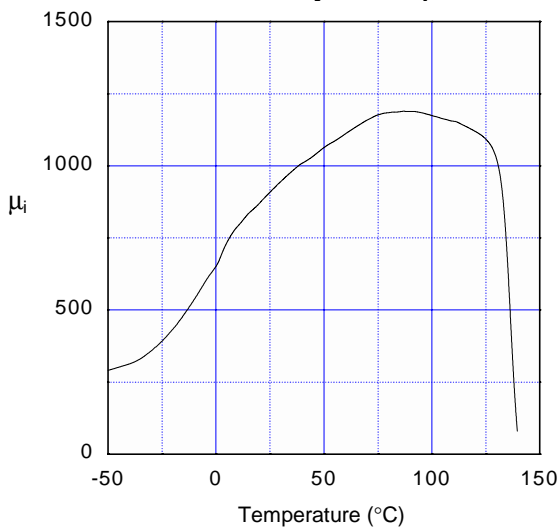
Complex Permeability vs. Frequency



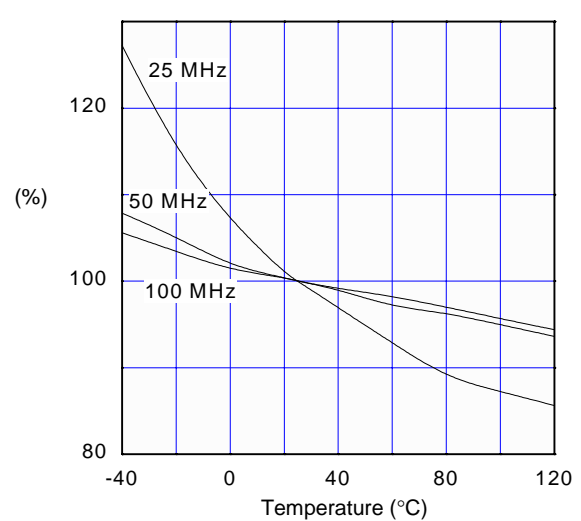
B - H Loop



Initial Permeability vs. Temperature



Change of Impedance vs. Temperature



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