



NATIONAL MAGNETICS GROUP, INC.

MANUFACTURERS OF MAGNETIC AND ADVANCED MATERIALS

AFFILIATE: TCI CERAMICS, INC.

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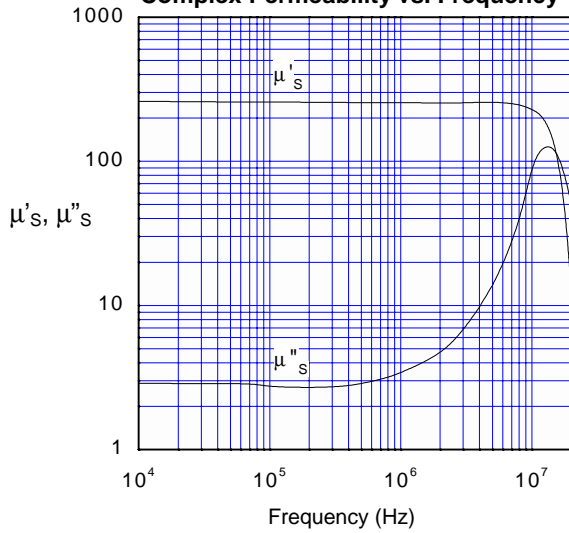
Material

A NiZn ferrite designed for low loss application such as medium frequency tuned circuits and balun transformers in frequencies up to 3 MHz, as well as RF suppression applications up to 200 MHz.

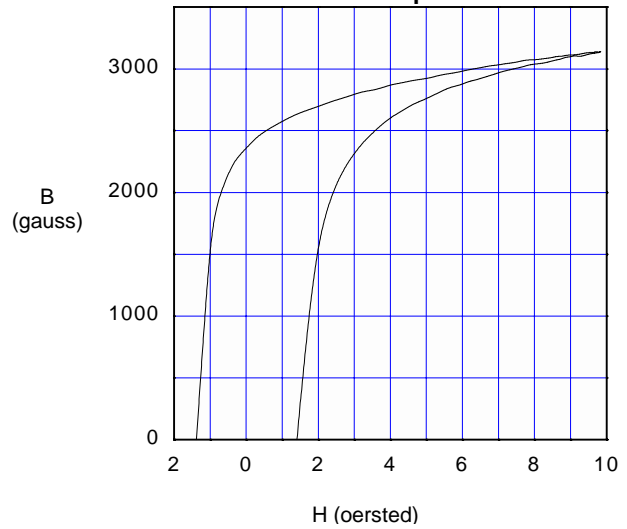
Specifications

Property	Unit	Symbol	Standard Test Conditions	Value
Initial Permeability		μ_i		$250 \pm 20\%$
Saturation Flux Density	gauss	B_s	Field Strength H = 10 oersted	≈ 3000
Residual Flux Density	gauss	B_r		≈ 1500
Coercive Force	oersted	H_c		≈ 1.30
Loss Factor	10^{-6}	$\text{Tan} \delta / \mu_i$	Frequency = 2.5 MHz	≤ 100
Temperature Coefficient of Initial Permeability (20-70°C)	%/°C			≤ 0.5
Volume Resistivity	$\Omega \text{ cm}$	ρ		$\approx 1 \times 10^8$
Curie Temperature	°C	T_c		≥ 250

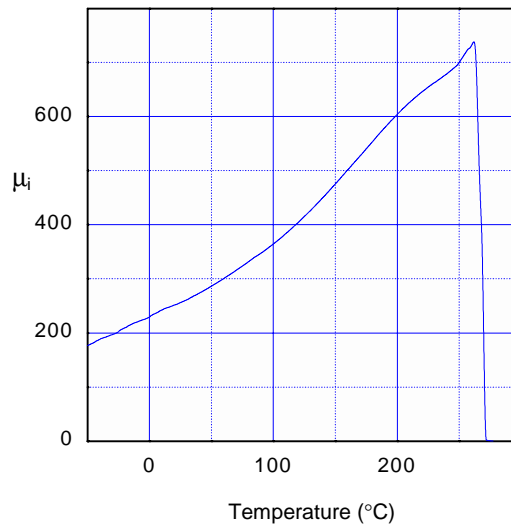
Complex Permeability vs. Frequency



B - H Loop



Initial Permeability vs. Temperature



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