



NATIONAL MAGNETICS GROUP, INC.

MANUFACTURERS OF MAGNETIC AND ADVANCED MATERIALS

AFFILIATE: TCI CERAMICS, INC.

H1

Material

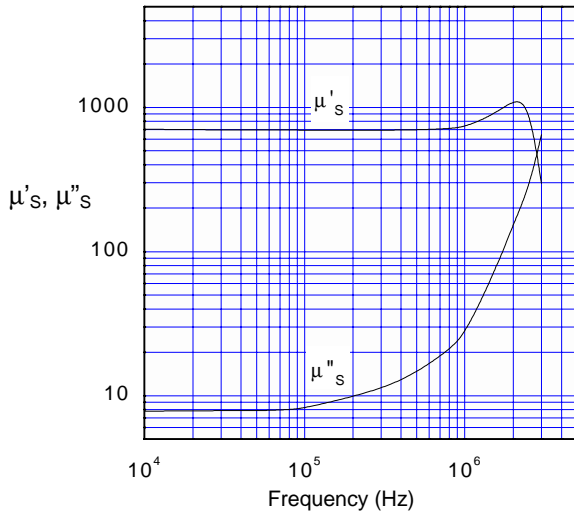
A low-loss NiZn ferrite designed for open circuit applications such as inductors and antennas for frequencies up to 1 MHz.

Specifications

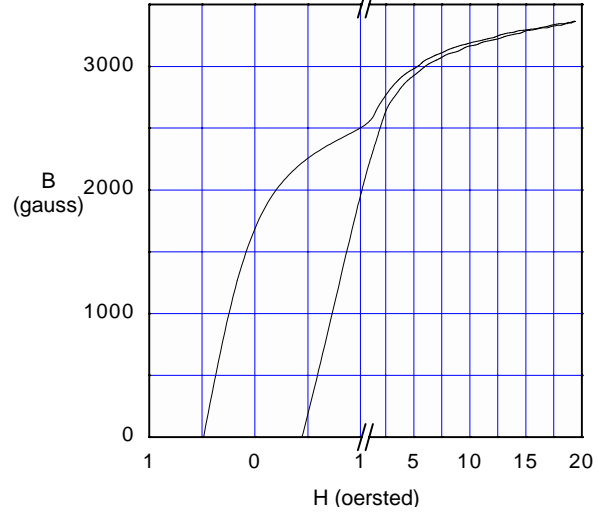
Property	Unit	Symbol	Standard Test Conditions	Value
Initial Permeability		μ_i	Frequency=10 kHz; B<10 gauss	$\approx 700 \pm 20\%$
Saturation Flux Density	gauss	B_s	H=20 oersted	≈ 3200
Residual Flux Density	gauss	B_r		≈ 1700
Coercive Force	oersted	H_c		≈ 0.5
Loss Factor	10^{-6}	$\text{Tan}\delta/\mu_i$	Frequency=50 kHz; B=1 gauss	≤ 15
			Frequency=1 MHz; B=1 gauss	≤ 80
Temperature Coefficient of Initial Permeability (20-70°C)	%/°C			≤ 0.8
Volume Resistivity	$\Omega \text{ cm}$	ρ		$\approx 10^7$
Curie Temperature	°C	T_c		≥ 190

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

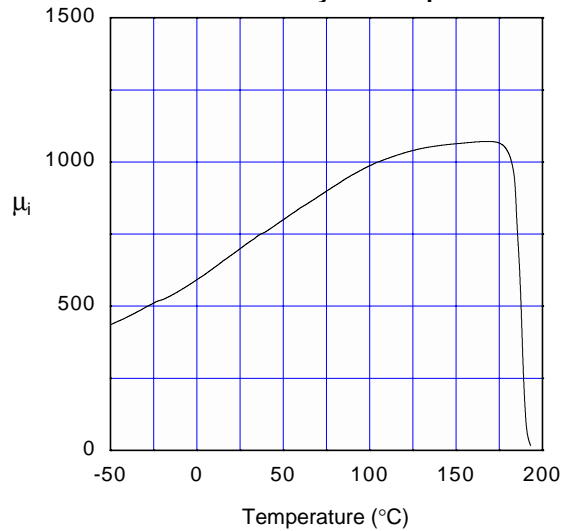
Complex Permeability vs. Frequency



B - H Loop



Initial Permeability vs. Temperature



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