



# NATIONAL MAGNETICS GROUP, INC.

MANUFACTURERS OF MAGNETIC AND ADVANCED MATERIALS

AFFILIATE: TCI CERAMICS, INC.

## Specifications

# N16

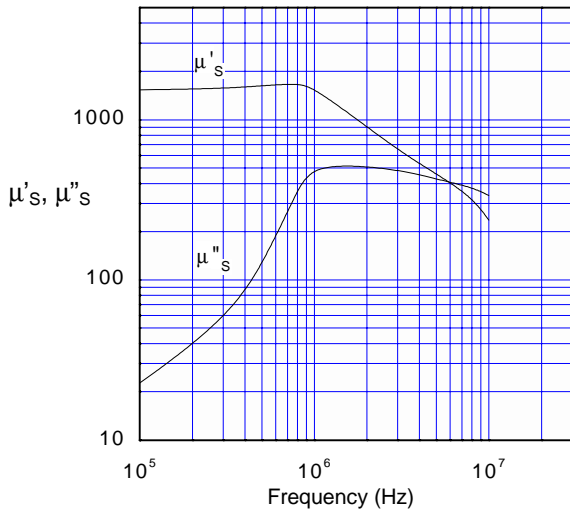
## Material

A NiZn ferrite with high permeability and resistivity for broadband applications at low frequencies as well as into the GHz range.

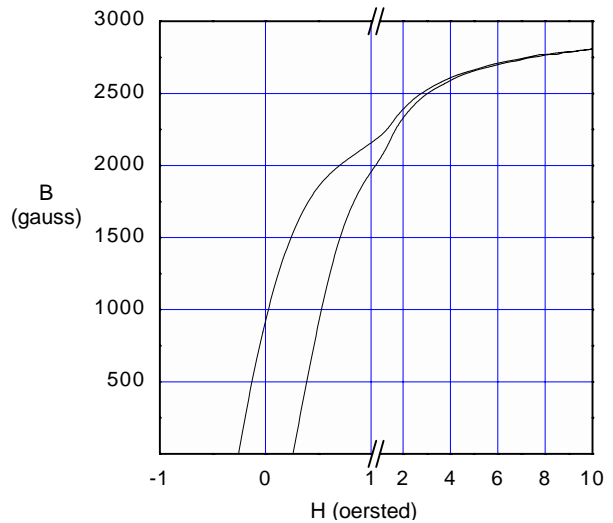
Property	Unit	Symbol	Standard Test Conditions	Value
Initial Permeability		$\mu_i$	Frequency=10 kHz; B<10 gauss	1600 $\pm$ 20%
Saturation Flux Density	gauss	$B_s$	H=30 oersted	$\approx$ 3000
Residual Flux Density	gauss	$B_r$		$\approx$ 1800
Coercive Force	oersted	$H_c$		$\approx$ 0.35
Loss Factor	$10^{-6}$	Tan $\delta$ / $\mu_i$	Frequency=1 MHz; B=1 gauss	$\leq$ 250
Temperature Coefficient of Initial Permeability (20-70°C)	%/°C			$\leq$ 0.4
Volume Resistivity	$\Omega$ cm	$\rho$		$\approx$ $1 \times 10^7$
Curie Temperature	°C	$T_c$		$\geq$ 110

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

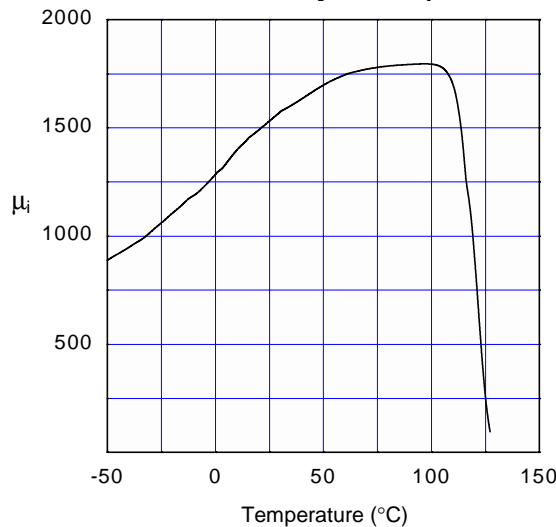
### Complex Permeability vs. Frequency



### B - H Loop



### Initial Permeability vs. Temperature



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