



NATIONAL MAGNETICS GROUP, INC.

MANUFACTURERS OF MAGNETIC AND ADVANCED MATERIALS

AFFILIATE: TCI CERAMICS, INC.

R

Material

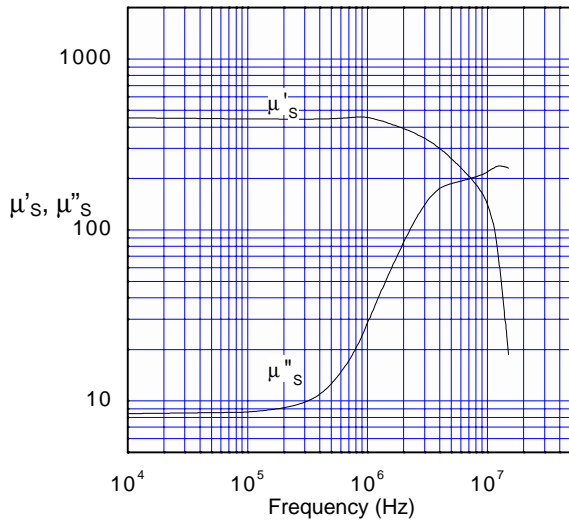
An Mg-Mn-Zn ferrite with high volume resistivity designed for application such as deflection coils, power transformers and chokes.

Specifications

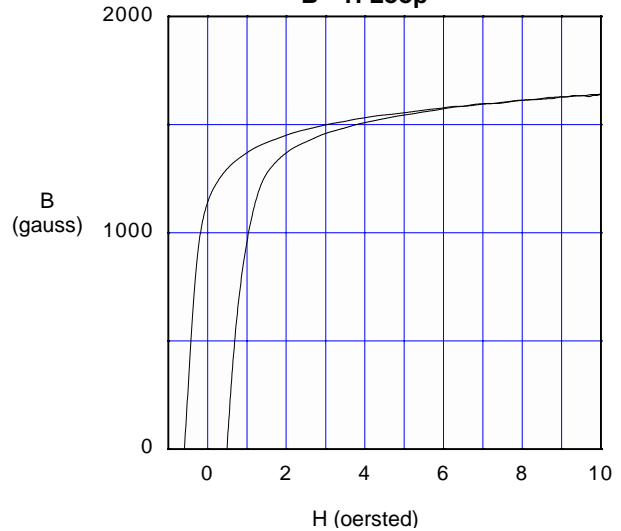
Property	Unit	Symbol	Standard Test Conditions	Value
Initial Permeability		μ_i	Frequency=10 kHz; B<10 gauss	450 \pm 20%
Saturation Flux Density	gauss	B_s	H =10 oersted	\approx 1600
Residual Flux Density	gauss	B_r		\approx 1200
Coercive Force	oersted	H_c		\approx 0.6
Loss Factor	10^{-6}	$\tan\delta/\mu_i$	Frequency=2.5 MHz; B=1 gauss	\leq 100
Temperature Coefficient of Initial Permeability (20-70°C)	%/°C			\leq 0.5
Volume Resistivity	Ω cm	ρ		$\approx 1 \times 10^8$
Curie Temperature	°C	T_c		\geq 90

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

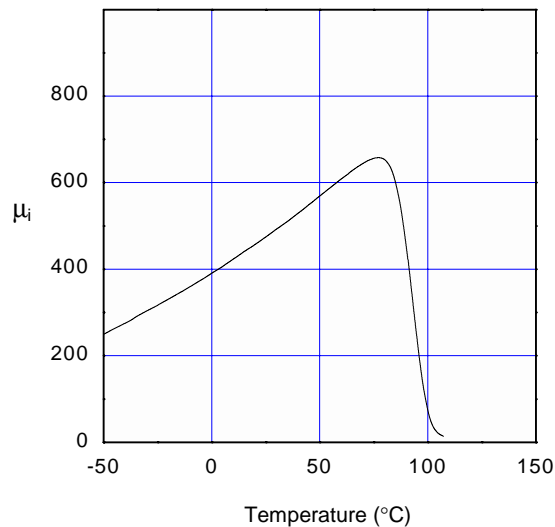
Complex Permeability vs. Frequency



B - H Loop



Initial Permeability vs. Temperature



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