



NATIONAL MAGNETICS GROUP, INC.

MANUFACTURERS OF MAGNETIC AND ADVANCED MATERIALS

AFFILIATE: TCI CERAMICS, INC.

M24

Material

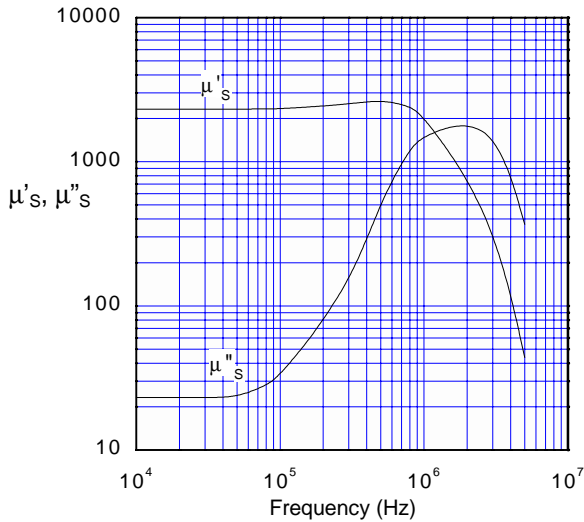
An MnZn ferrite for low and high inductive applications for frequencies up to 100kHz. This material is supplied in block form.

Specifications

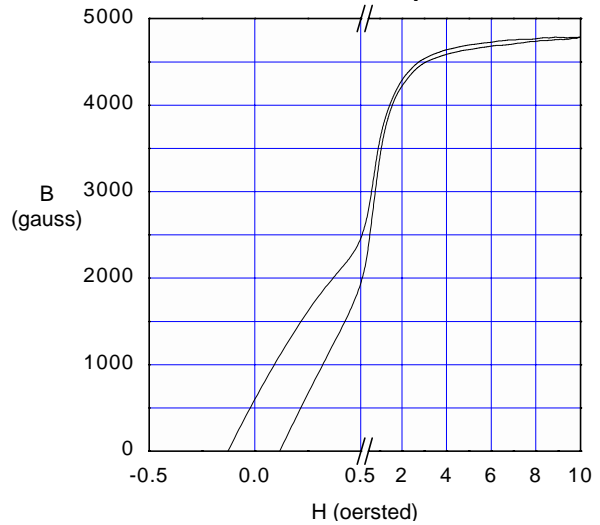
Property	Unit	Symbol	Standard Test Conditions	Value
Initial Permeability		μ_i	Frequency=10 kHz; B<10 gauss	2300 ± 20%
Saturation Flux Density	gauss	B_s	H=10 oersted	≈ 4700
Residual Flux Density	gauss	B_r		≈ 800
Coercive Force	oersted	H_c		≈ 0.2
Loss Factor	10^{-6}	$\text{Tan}\delta/\mu_i$	Frequency=0.1 MHz; B=1 gauss	≤ 13
Temperature Coefficient of Initial Permeability (20-70°C)	%/°C			≤ 0.3
Volume Resistivity	$\Omega \text{ cm}$	ρ		≈ 100
Curie Temperature	°C	T_c		≥ 190
Density	kg/m^3			≈ 4800

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

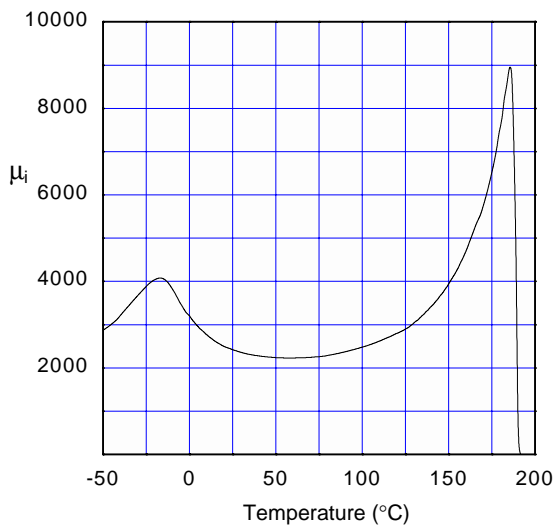
Complex Permeability vs. Frequency



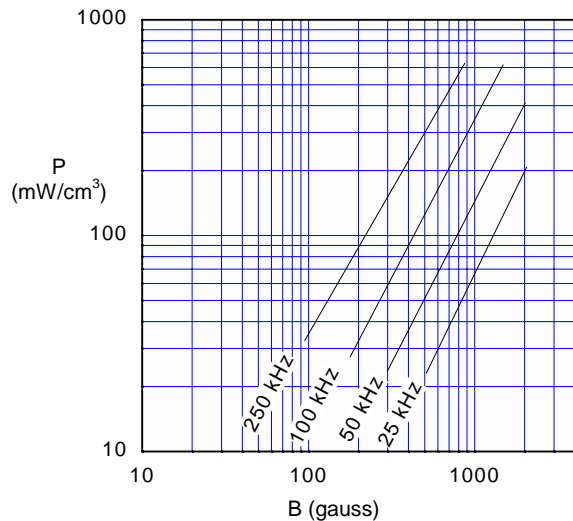
B - H Loop



Initial Permeability vs. Temperature



Power Loss Density vs. Flux Density



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