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Material

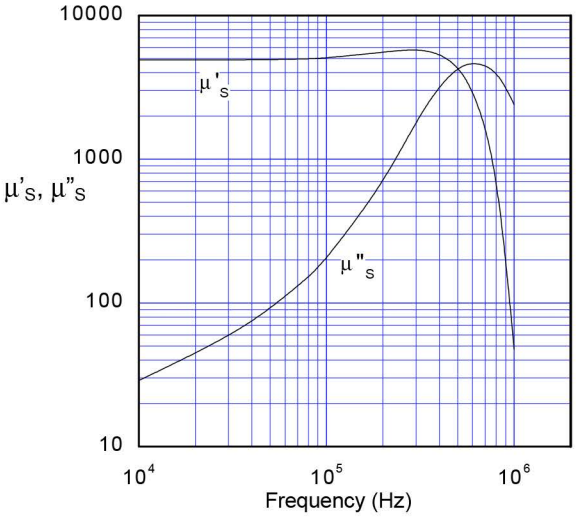
A high permeability, low loss MnZn ferrite designed for a range of applications including broadband and pulse transformer and filtering applications.

Specifications

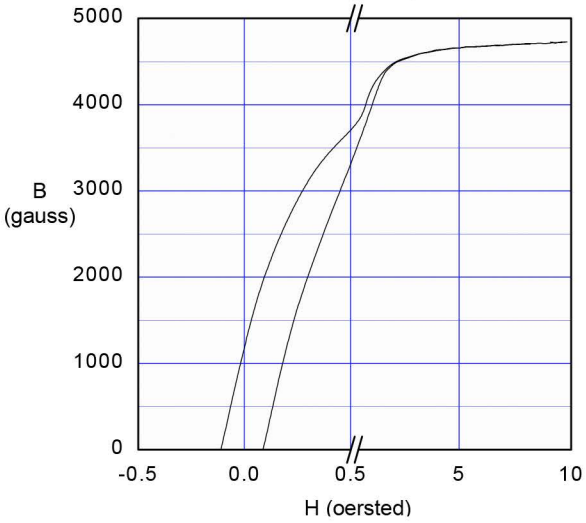
Property	Unit	Symbol	Standard Test Conditions	Value
Initial Permeability		μ_i	Frequency=10 kHz; B<10 gauss	5000 ± 30%
Saturation Flux Density	gauss	B_S	H=10 oersted	≈ 4700
Residual Flux Density	gauss	B_r		≈ 1200
Coercive Force	oersted	H_C		≈ 0.1
Loss Factor	10^{-6}	$Tan\delta/\mu_i$	Frequency=0.1 MHz; B=1 gauss	≤15
Temperature Coefficient of Initial Permeability (20-70°C)	%/°C			≤ 0.5
Volume Resistivity	Ω cm	ρ		≈ 200
Curie Temperature	°C	T_C		≥ 175

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

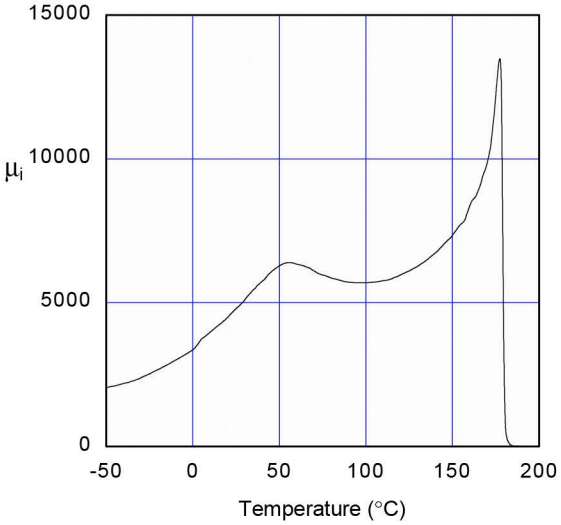
Complex Permeability vs. Frequency



B – H Loop



Initial Permeability vs. Temperature



Incremental Permeability vs. Field Strength