

# F Material

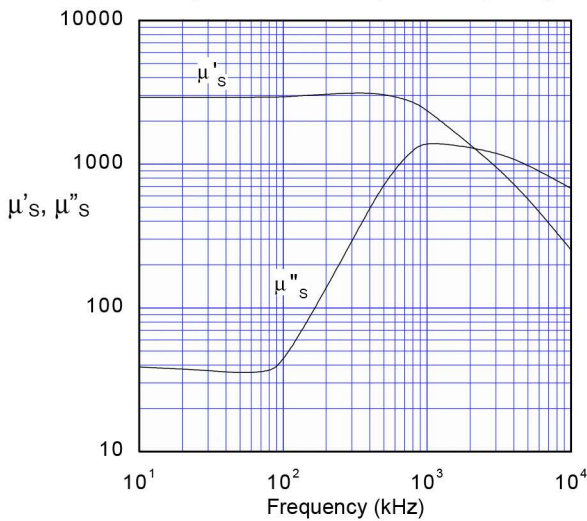
A MnZn ferrite specifically designed for power applications operating in frequencies up to 2 MHz.

## Specifications

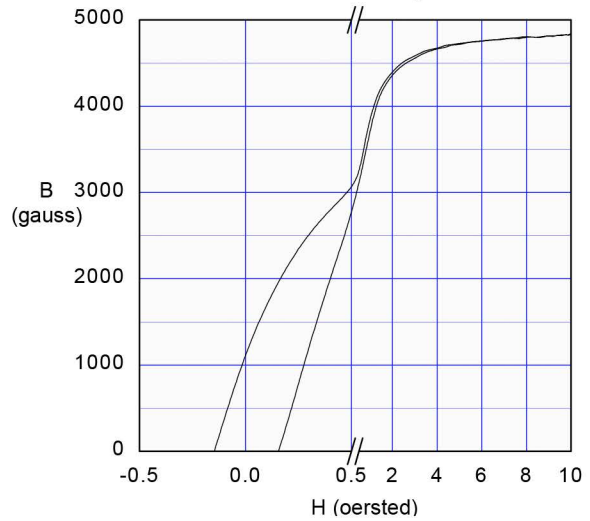
Property	Unit	Symbol	Standard Test Conditions	Value
Initial Permeability		$\mu_i$	Frequency=10 kHz; B<10 gauss	2900 ± 20%
Saturation Flux Density	gauss	$B_s$	H=10 oersted	≈ 4700
Residual Flux Density	gauss	$B_r$		≈ 1000
Coercive Force	oersted	$H_c$		≈ 0.18
Loss Factor	$10^{-6}$	$\tan\delta/\mu_i$	Frequency=0.1 MHz; B=1 gauss	≤ 5
Temperature Coefficient of Initial Permeability (20-70°C)	%/°C			≤ 0.7
Volume Resistivity	$\Omega$ cm	$\rho$		≈ $10^3$
Curie Temperature	°C	$T_c$		≥ 185

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

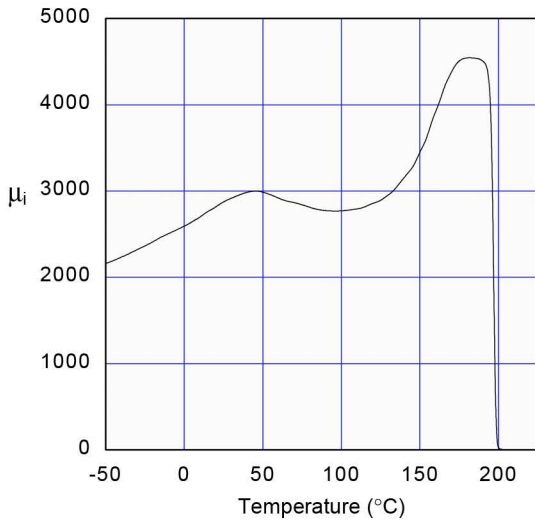
**Complex Permeability vs. Frequency**



**B – H Loop**



**Initial Permeability vs. Temperature**



**Power Loss Density vs. Flux Density**

