

79 Material



79 Material Characteristics:

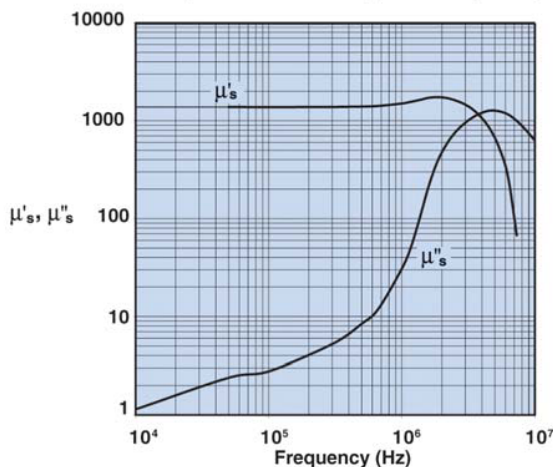
A new high frequency material for power applications up to 750 kHz.

This MnZn power ferrite is available in customer specific core designs.

This material is available as special order for customer specific applications.

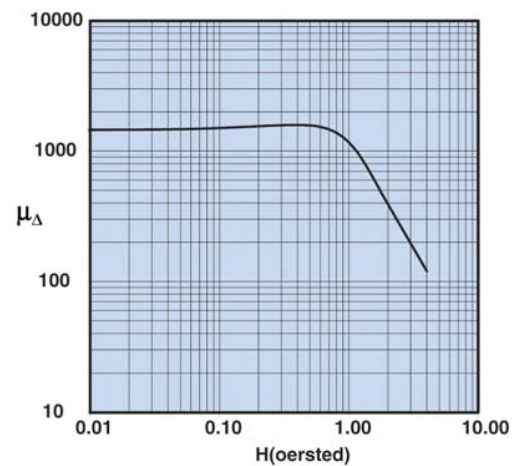
Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		μ_i	1400
Flux Density @ Field Strength	gauss oersted	B H	4700 5
Residual Flux Density	gauss	B_r	1700
Coercive Force	oersted	H_c	0.40
Loss Factor @ Frequency	10^{-6} MHz	$\tan \delta / \mu_i$	4.0 0.1
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		0.6
Curie Temperature	°C	T_c	>225
Resistivity	Ω cm	ρ	2×10^{-2}

Complex Permeability vs. Frequency

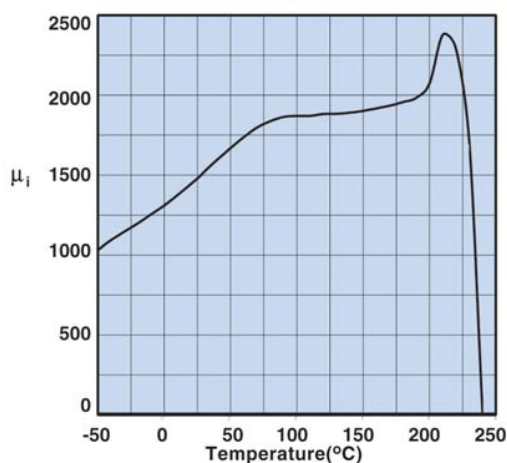


Measured on an 18/10/6mm toroid
using the HP 4284A and the HP 4291A.

Incremental Permeability vs. H

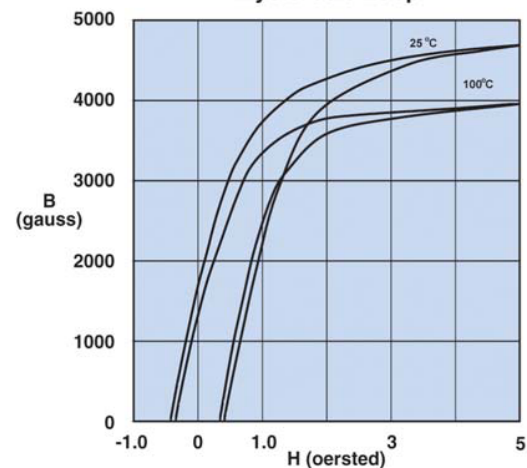


Initial Permeability vs. Temperature



Measured on an 18/10/6mm toroid at 100 kHz.

Hysteresis Loop

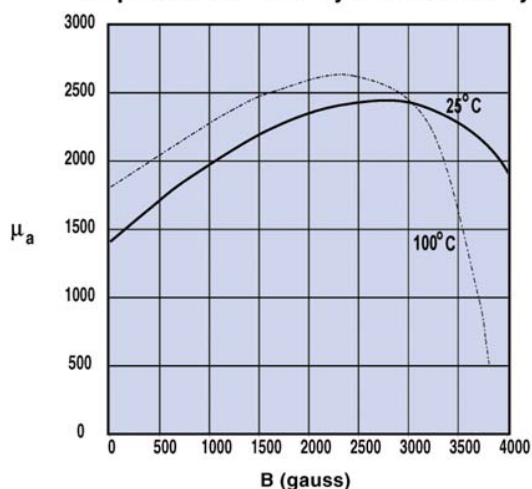


Measured on an 18/10/6mm toroid at 10 kHz.

Fair-Rite Products Corp. PO Box 288, One Commercial Row, Wallkill, NY 12589-0288

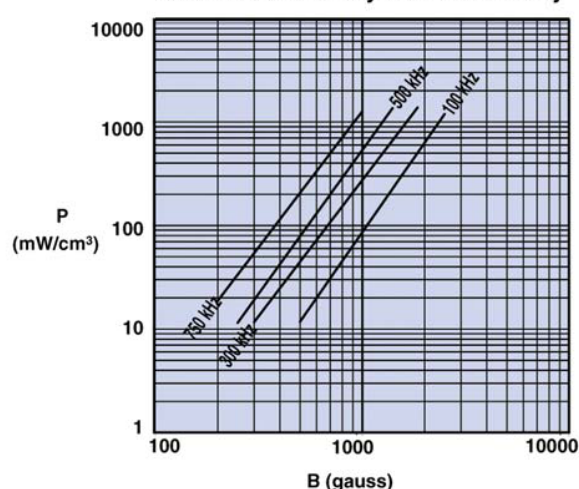
Phone: (888) FAIR RITE / (845) 895-2055 • Fax: (888) FERRITE / (845) 895-2629 • Web: www.fair-rite.com
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Amplitude Permeability vs. Flux Density



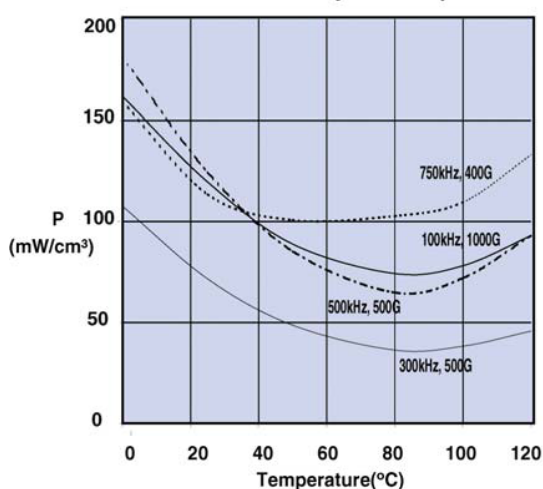
Measured on an 18/10/6mm toroid at 10 kHz.

Power Loss Density vs. Flux Density



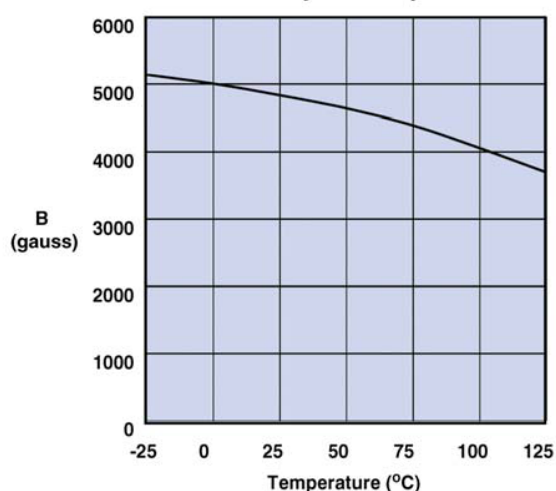
Measured on an 18/10/6mm toroid using the Clarke Hess 258 VAW at 100°C

Power Loss Density vs. Temperature



Measured on an 18/10/6mm toroid using the Clarke Hess 258 VAW.

Flux Density vs. Temperature



Measured on an 18/10/6mm toroid at 10 kHz, and H=5 oersted.