

97 Material



A low loss MnZn ferrite material for power applications up to 400 kHz.

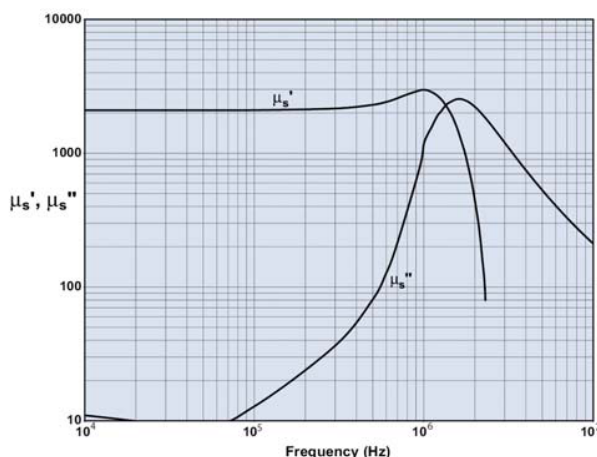
New type 97 Material is a low loss/higher frequency power material. It features minimal power loss at 100°C at moderate flux densities for operation below 400 kHz.

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

97 Material Characteristics

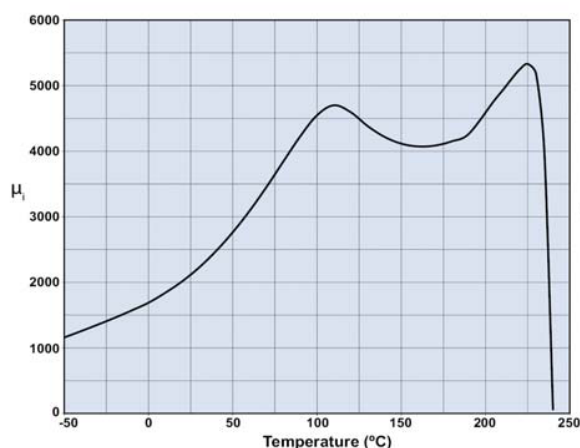
Property	Unit	Symbol	Value
Initial Permeability @ B < 10gauss		μ_i	2000
Flux Density @ Field Strength	gauss oersted	B H	5000 5
Residual Flux Density	gauss	B_r	1500
Coercive Force	oersted	H_c	0.16
Loss Factor @ Frequency	10^{-6} MHz	$\tan\delta/\mu_i$	3.5 0.1
Temperature Coefficient of Initial Permeability (20 - 70°C)	% / °C		1.4
Curie Temperature	°C	T_c	> 220
Resistivity	ohm-cm	ρ	200

Complex Permeability vs. Frequency



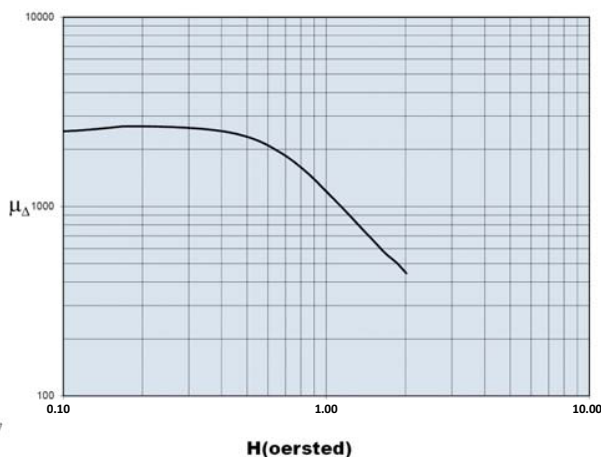
Measured on an 18/10/6mm toroid using HP 4284A and HP4291A.

Initial Permeability vs. Temperature

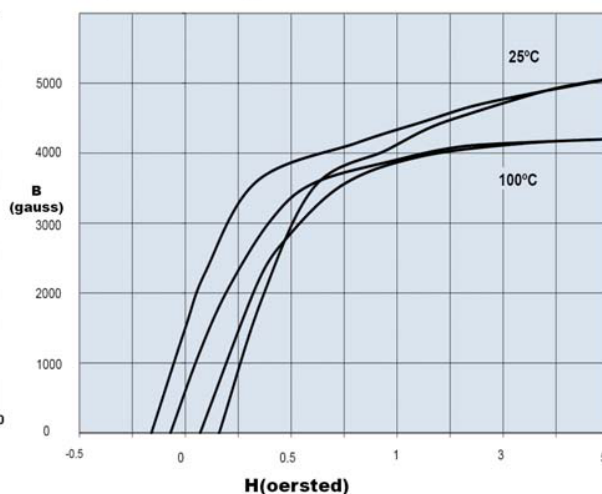


Measured on an 18/10/6mm toroid at 10kHz.

Incremental Permeability vs. H



Hysteresis Loop



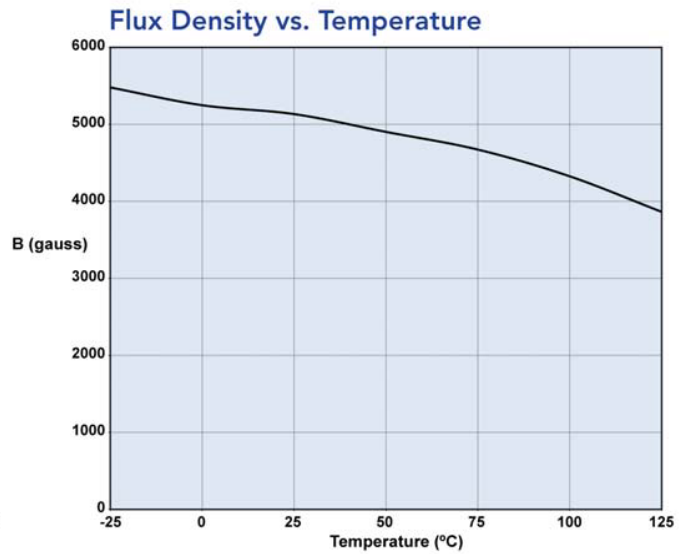
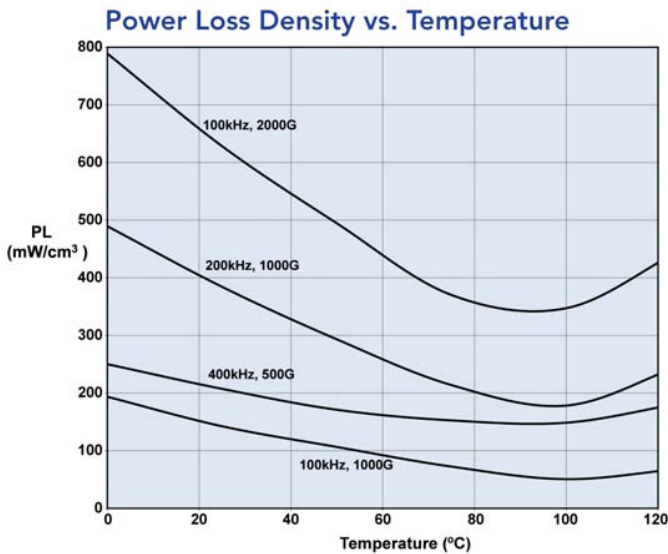
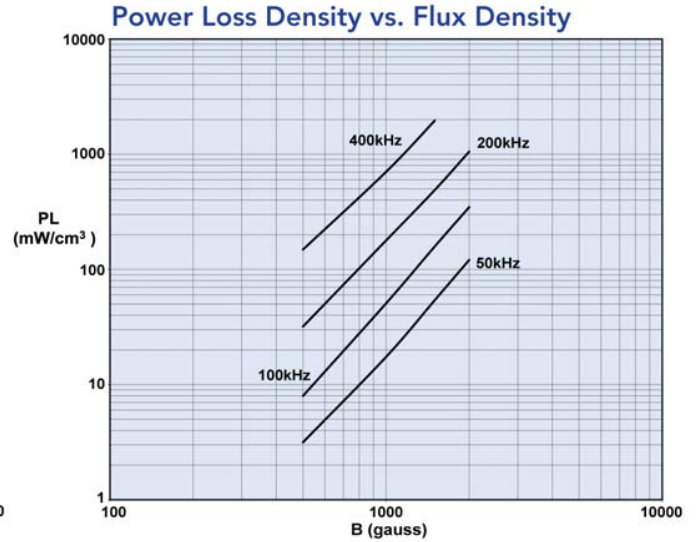
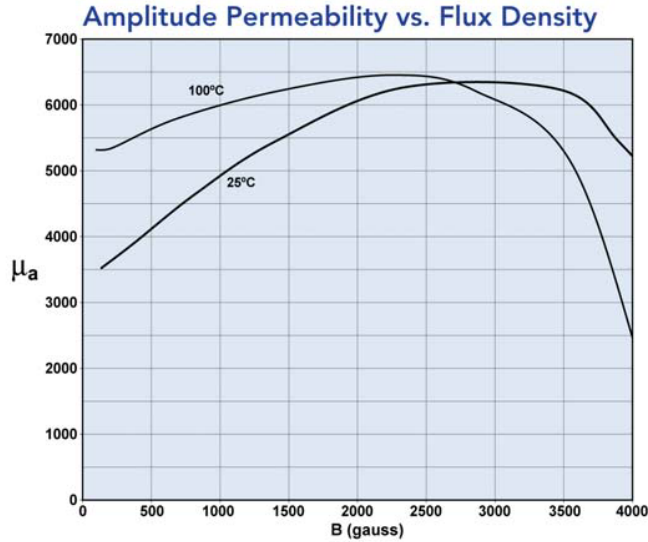
Measured on an 18/10/6mm toroid at 10kHz.

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