

# 76 Material



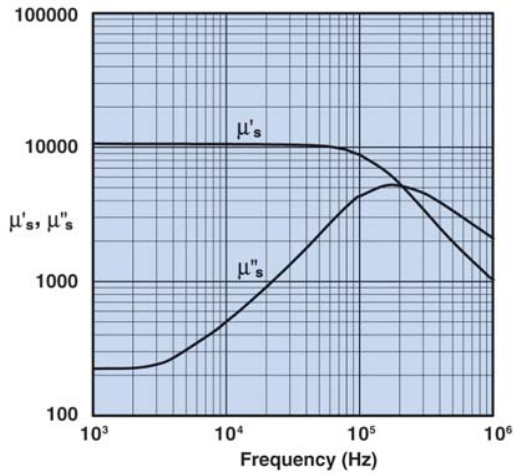
A MnZn ferrite with a 10K permeability and an acceptable Curie temperature for broadband and pulse transformer designs and common-mode choke applications.

Toroids are available in 76 material.

## 76 Material Characteristics:

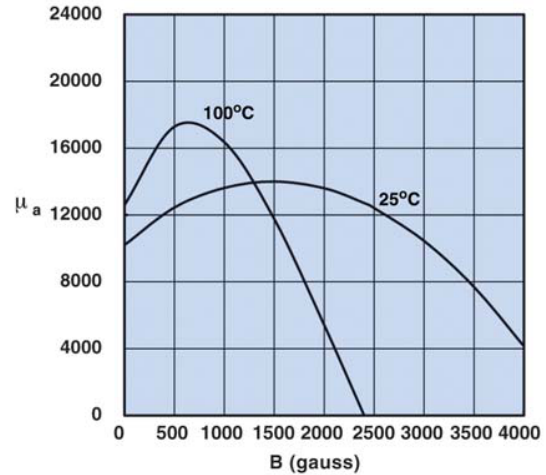
Property	Unit	Symbol	Value
Initial Permeability @ B < 10 gauss		$\mu_i$	10000
Flux Density @ Field Strength	gauss oersted	B H	4000 5
Residual Flux Density	gauss	$B_r$	1800
Coercive Force	oersted	$H_c$	0.12
Loss Factor @ Frequency	$10^{-6}$ MHz	$\tan \delta/\mu_i$	15 0.025
Temperature Coefficient of Initial Permeability (20 -70°C)	%/°C		0.5
Curie Temperature	°C	$T_c$	>120
Resistivity	$\Omega$ cm	$\rho$	50

### Complex Permeability vs. Frequency



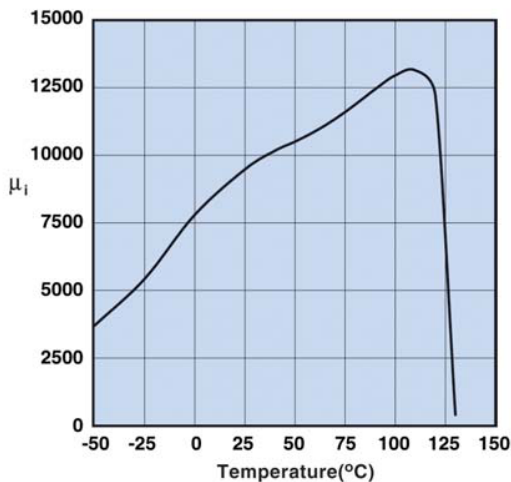
Measured on a 17/10/6mm toroid using the HP 4284A and, the HP 4291A.

### Amplitude Permeability vs. Flux Density



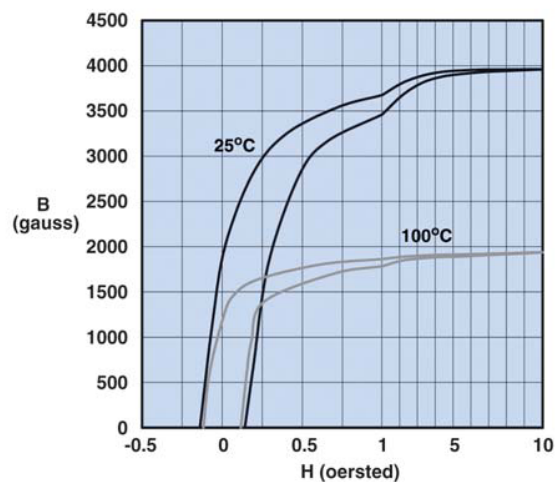
Measured on a 17/10/6mm toroid using the HP 54510A.

### Initial Permeability vs. Temperature



Measured on a 17/10/6mm toroid at 10 kHz.

### Hysteresis Loop



Measured on a 17/10/6mm toroid at 10 kHz.

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