Amidon, inc.
240 Briggs Ave., Costa Mesa, CA 92626 | Tel: 800•898•1883 | Fax: 714•850•0514

# 77
## Material

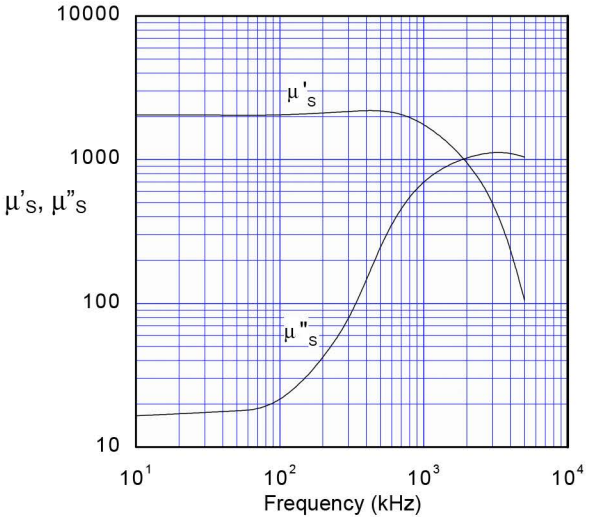
An MnZn ferrite with high saturation for high flux power applications for frequencies up to 200 kHz and also for inductive applications, including RFID transponders.

### Specifications

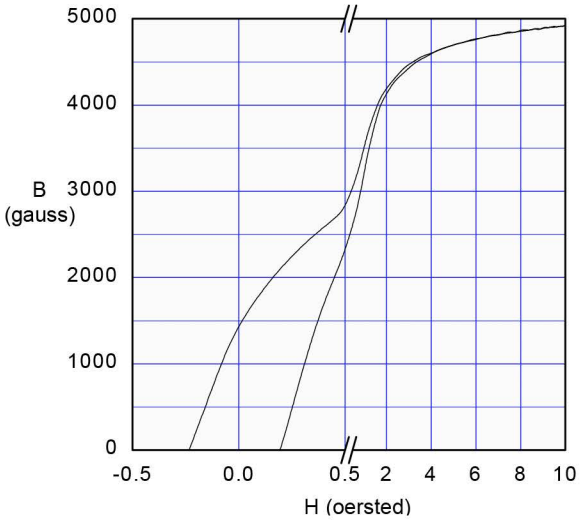
| Property | Unit | Symbol | Standard Test Conditions | Value |
|---|---|---|---|---|
| Initial Permeability | | $\mu_i$ | Frequency=10 kHz; B<10 gauss | 2000 ± 20% |
| Saturation Flux Density | gauss | $B_S$ | H=10 oersted | ≈ 4900 |
| Residual Flux Density | gauss | $B_r$ | | ≈ 1500 |
| Coercive Force | oersted | $H_C$ | | ≈ 0.2 |
| 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 | | | ≤ 0.7 |
| Volume Resistivity | Ω cm | ρ | | ≈ $10^2$ |
| Curie Temperature | °C | $T_C$ | | ≥ 190 |

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

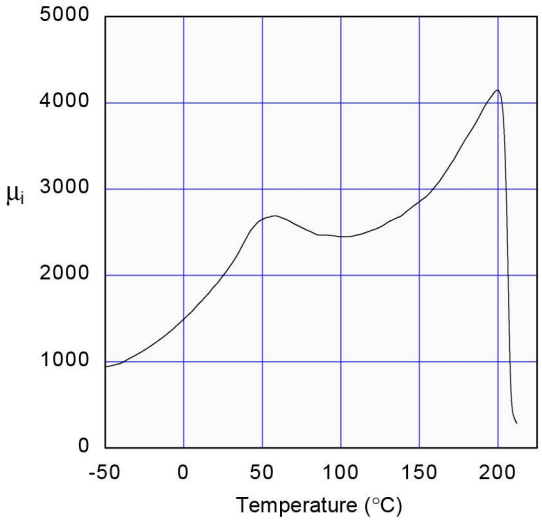
**Complex Permeability vs. Frequency**



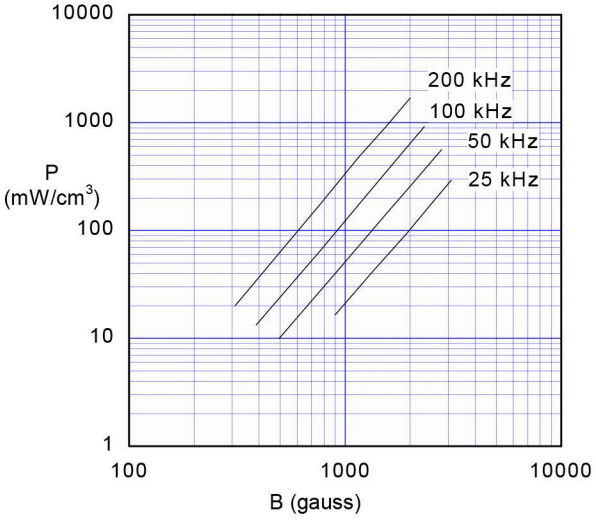

**B – H Loop**




**Initial Permeability vs. Temperature**




**Power Loss Density vs. Flux Density**



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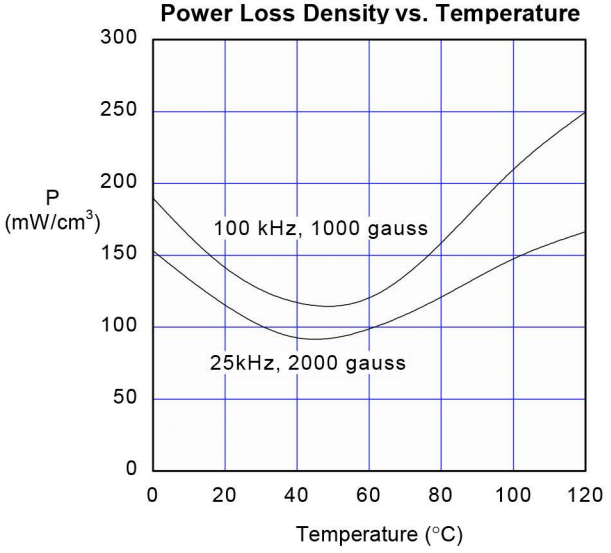
**Power Loss Density vs. Temperature**




**Incremental Permeability vs. Field Strength**