



NATIONAL MAGNETICS GROUP, INC.

MANUFACTURERS OF MAGNETIC AND ADVANCED MATERIALS

AFFILIATE: TCI CERAMICS, INC.

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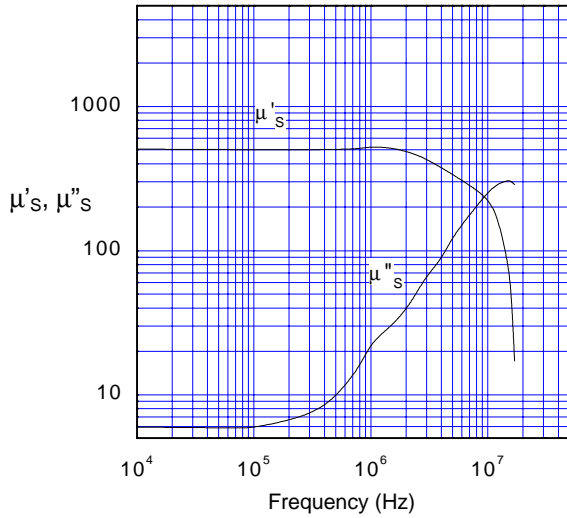
Material

A high dc resistivity NiZn ferrite designed for inductive applications.

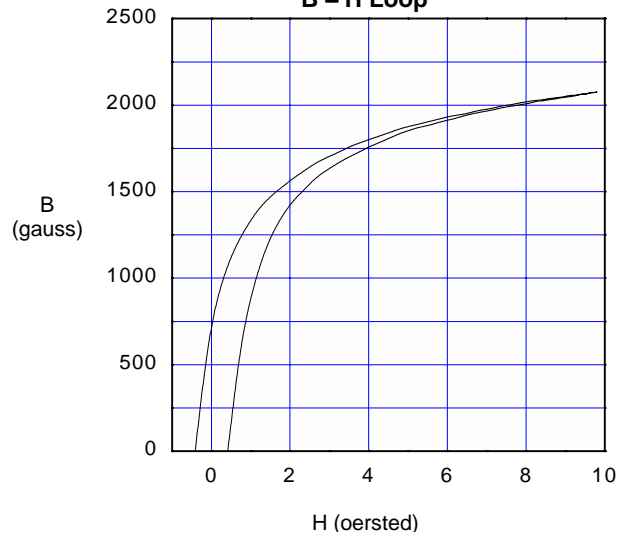
Specifications

| Property | Unit | Symbol | Standard Test Conditions | Value |
|---|-------------|--------------------|------------------------------|-------------------------|
| Initial Permeability | | μ_i | Frequency=10 kHz; B<10 gauss | $500 \pm 20\%$ |
| Saturation Flux Density | gauss | B_s | H =15 oersted | ≈ 2000 |
| Residual Flux Density | gauss | B_r | | ≈ 800 |
| Coercive Force | oersted | H_c | | ≈ 0.50 |
| Loss Factor | 10^{-6} | $\tan\delta/\mu_i$ | Frequency=1 MHz; B=1 gauss | ≤ 100 |
| Temperature Coefficient of Initial Permeability (20-70°C) | %/°C | | | ≤ 0.7 |
| Volume Resistivity | Ω cm | ρ | | $\approx 1 \times 10^8$ |
| Curie Temperature | °C | T_c | | ≥ 100 |

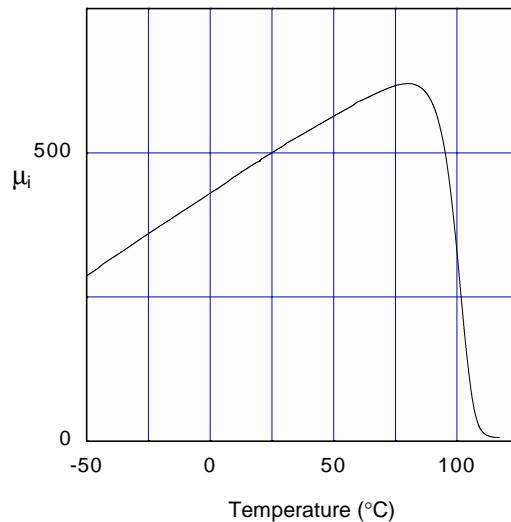
Complex Permeability vs. Frequency



B – H Loop



Initial Permeability vs. Temperature



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