



CMD5005

General Purpose, High Frequency Ni-Zn Ferrite

The high permeability, high resistivity, narrow BH loop, and closed porosity of CMD5005 make it ideal for broadband transformer, vacuum, fast-pulse, inductive, and RF applications. An excellent choice for transformers in the frequency spectrum from 1 through 100 MHz, current transformers for EMP, and deflection magnets in particle accelerators.

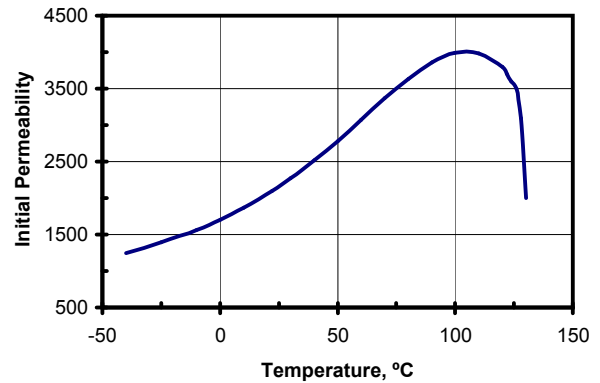
Typical Properties

Initial Permeability	2100
Maximum Permeability	5500
Saturation Flux Density	3300 Gauss
Remanent Flux Density	1300 Gauss
Coercive Force	0.12 Oersted
Curie Temperature	130°C
dc Volume Resistivity	10^{10} ohm-cm
Bulk Density	5.27 g/cc

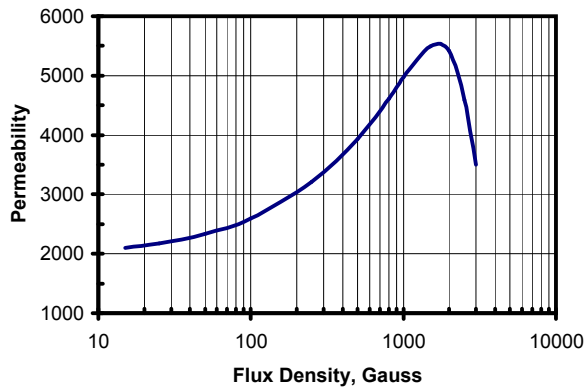
Unless otherwise specified, all tests were performed at 10 KHz, 22°C

B_s tested at 1 KHz, 20 Oersted • B_r, H_c at 1 KHz, 5 Oersted

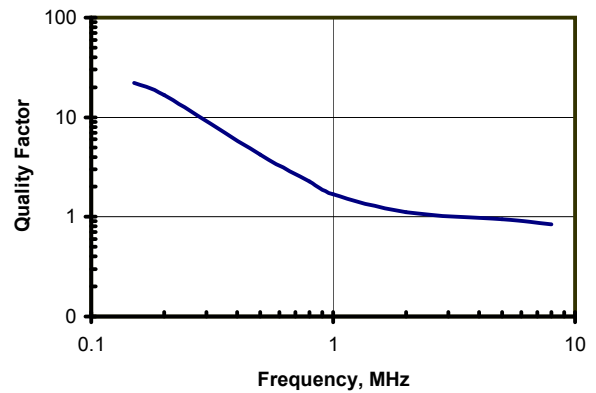
Initial Permeability vs. Temperature



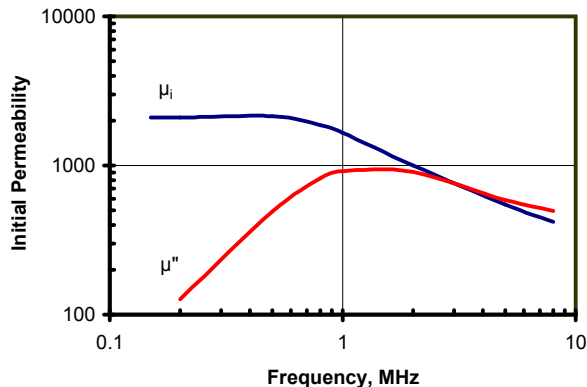
Permeability vs. Flux Density



Quality Factor vs. Frequency



Complex Permeability vs. Frequency



BH Loop Parameters vs. Temperature

