



# 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.*

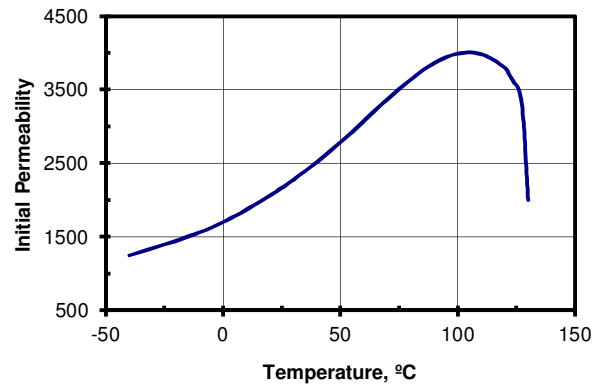
### Typical Properties

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 <sup>10</sup> ohm-cm
Bulk Density	5.27 g/cc

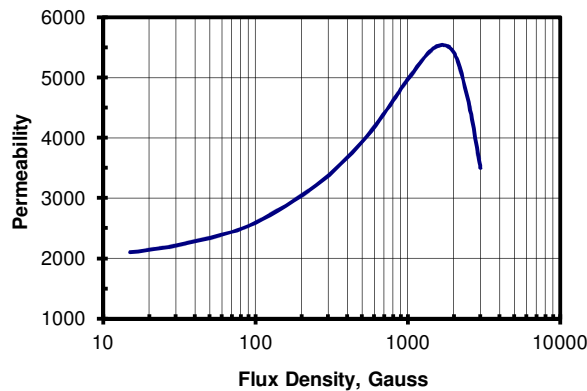
Unless otherwise specified, all tests were performed at 10 KHz, 22°C

*B<sub>s</sub> tested at 1 KHz, 20 Oersted • B<sub>r</sub>, H<sub>c</sub> at 1 KHz, 5 Oersted*

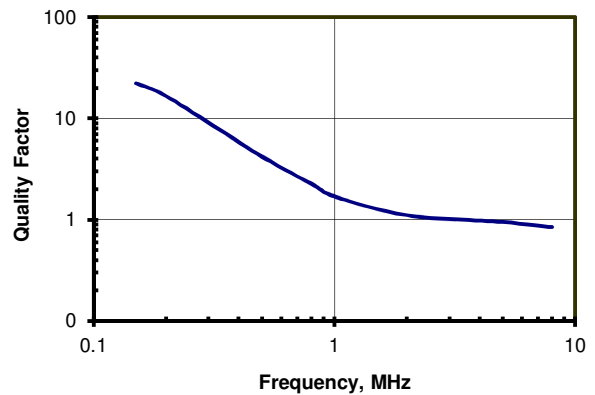
### Initial Permeability vs. Temperature



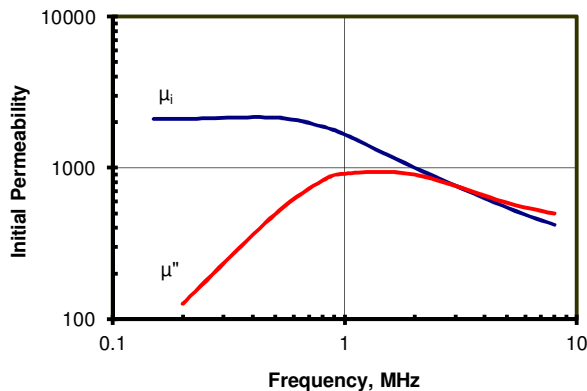
### Permeability vs. Flux Density



### Quality Factor vs. Frequency



### Complex Permeability vs. Frequency



### BH Loop Parameters vs. Temperature

