



CMD10

High Flux Density, High Frequency Ni-Zn Ferrite

CMD10 has the highest saturation flux density of our nickel-zinc ferrites, along with medium permeability and high resistivity. Its' formulation also exhibits a high Curie temperature, permitting continuous operation at elevated temperatures. It is ideal for broadband RF and transmission line transformers, solid state amplifier power splitters, pulsed power, and kicker magnets operating in or out of vacuum up to 200°C.

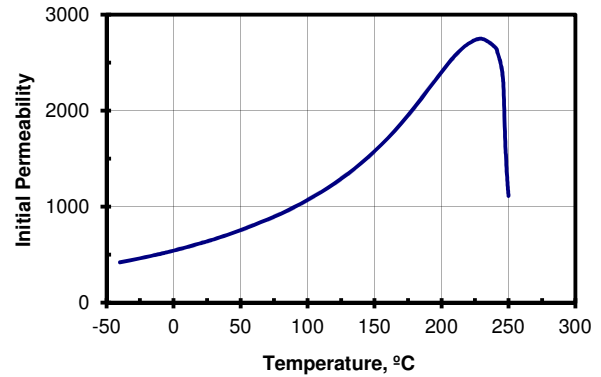
Typical Properties

Initial Permeability	625
Maximum Permeability	3000
Saturation Flux Density	4300 Gauss
Remanent Flux Density	2900 Gauss
Coercive Force	0.36 Oersted
Curie Temperature	250°C
dc Volume Resistivity	10 ¹⁰ ohm-cm
Bulk Density	5.20 g/cc

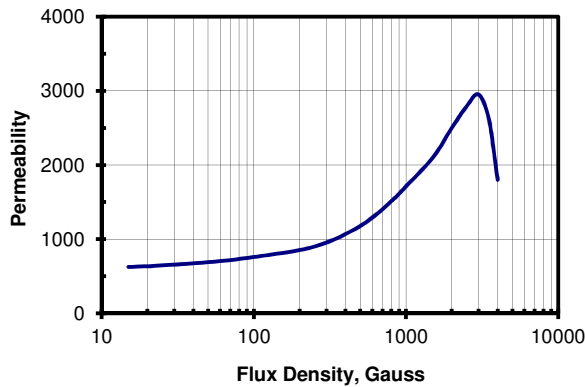
Unless otherwise specified, all tests were performed at 10 KHz, 22°C

Bs tested at 1 KHz, 20 Oersted • Br, Hc at 1 KHz, 5 Oersted

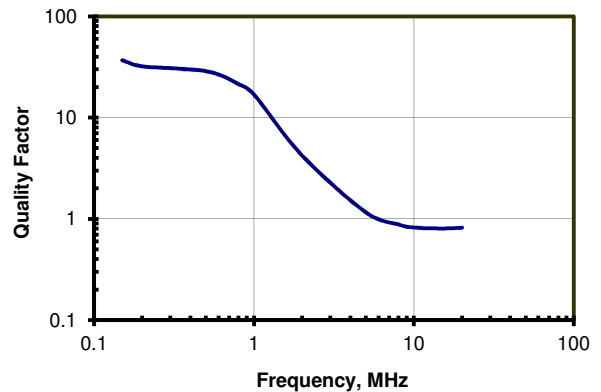
Initial Permeability vs. Temperature



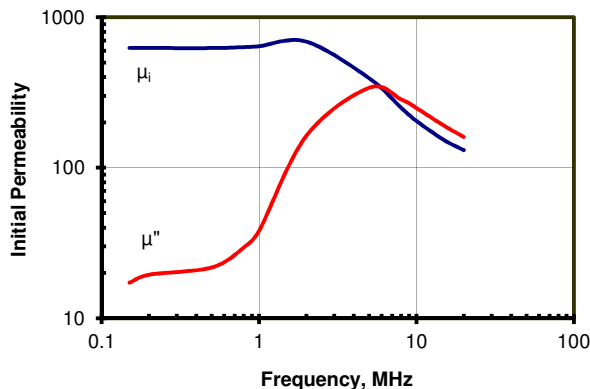
Permeability vs. Flux Density



Quality Factor vs. Frequency



Complex Permeability vs. Frequency



BH Loop Parameters vs. Temperature

