Ceramic Magnetics, Inc.
A Thomas & Skinner Company

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 200ºC.

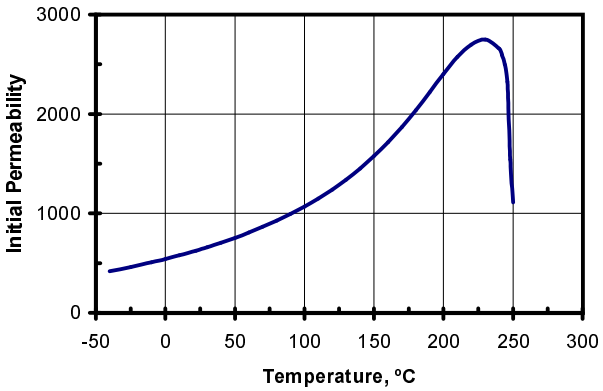
Typical Properties

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

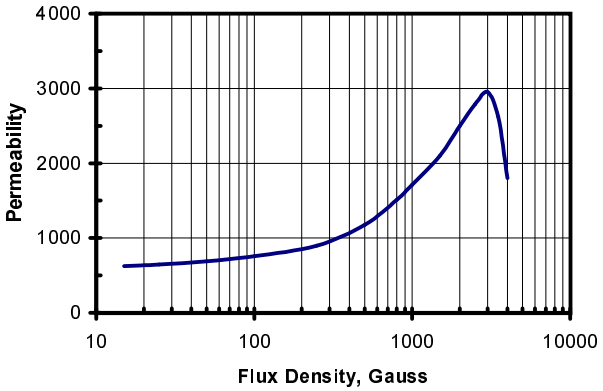
Unless otherwise specified, all tests were performed at 10 KHz, 22ºC

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

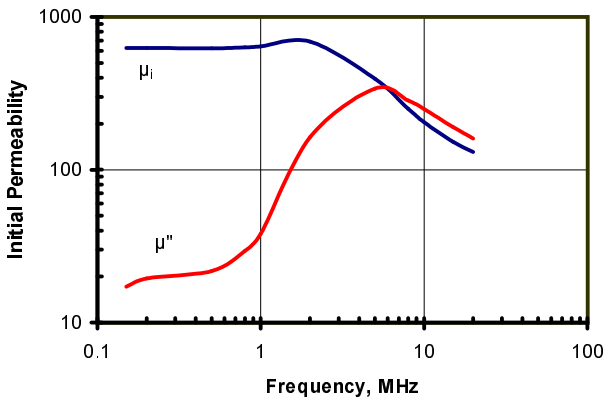
Initial Permeability vs. Temperature



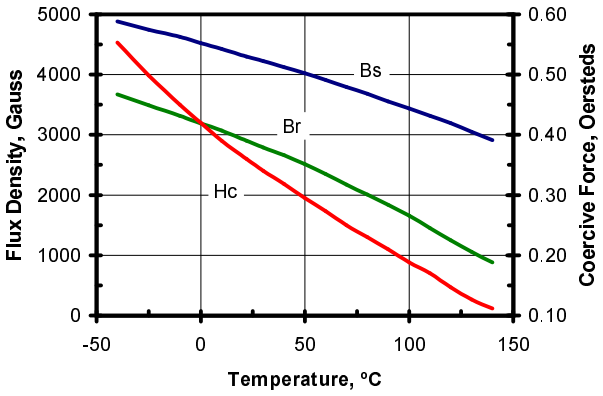
Permeability vs. Flux Density



Complex Permeability & ui vs. Frequency



BH Loop Parameters vs. Temperature



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