



CMD6

High Frequency Ni-Zn Ferrite

This material is a fine-grained ferrite intended as the precursor for HIPed CMD908, a magnetic recording head material. This material is used where a fine-grained ferrite is required but where the additional expense of hot isostatic pressing is not justified. It is good up to 1600 perm at 1MHz and has a 10 μm grain size.

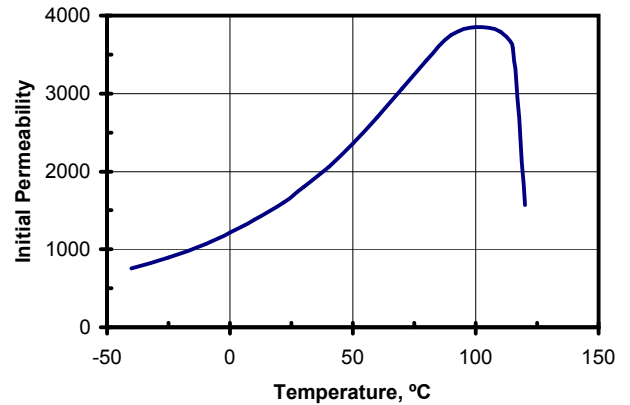
Typical Properties

| | |
|-------------------------|------------------------|
| Initial Permeability | 1600 |
| Maximum Permeability | 7000 |
| Saturation Flux Density | 3400 Gauss |
| Remanent Flux Density | 1600 Gauss |
| Coercive Force | 0.095 Oersted |
| Curie Temperature | 120°C |
| dc Volume Resistivity | 10 ⁶ ohm-cm |
| Bulk Density | 5.30 g/cc |

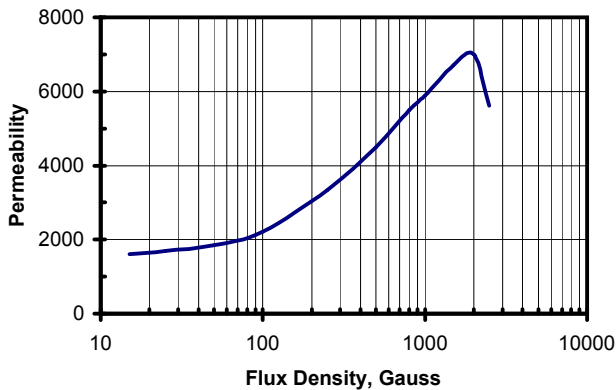
Unless otherwise specified, all tests were performed at 10 KHz, 22°C

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

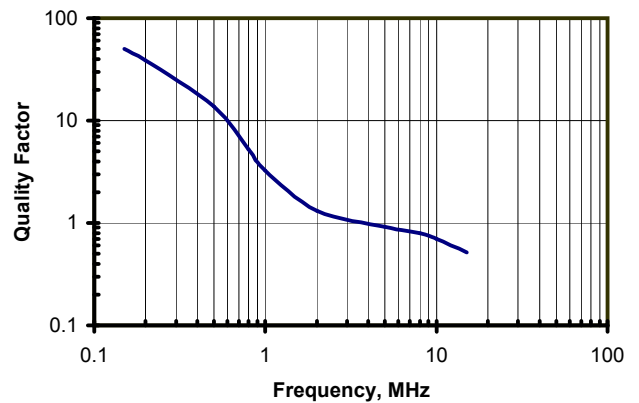
Initial Permeability vs. Temperature



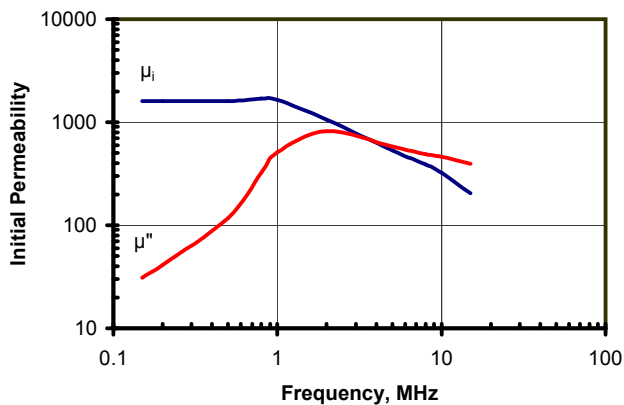
Permeability vs. Flux Density



Quality Factor vs. Frequency



Complex Permeability vs. Frequency



BH Loop Parameters vs. Temperature

