



# CM400

*CM400 is a Ni-Zn material developed for pulse applications where fast rise times are required. This material is characterized by a low Q which dampens oscillations and is suitable for high temperature operation. This material is available in both pressed to shape and machined cores.*

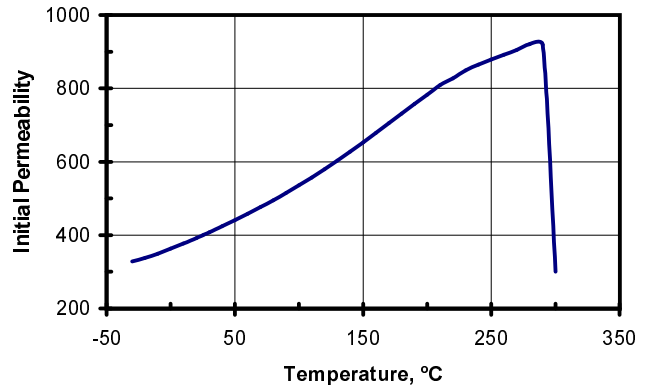
### Typical Properties

Initial Permeability	400
Maximum Permeability	1600
Saturation Flux Density	4600 Gauss
Remanent Flux Density	2400 Gauss
Coercive Force	0.65 Oersted
Curie Temperature	300°C
dc Volume Resistivity	10 <sup>10</sup> ohm-cm

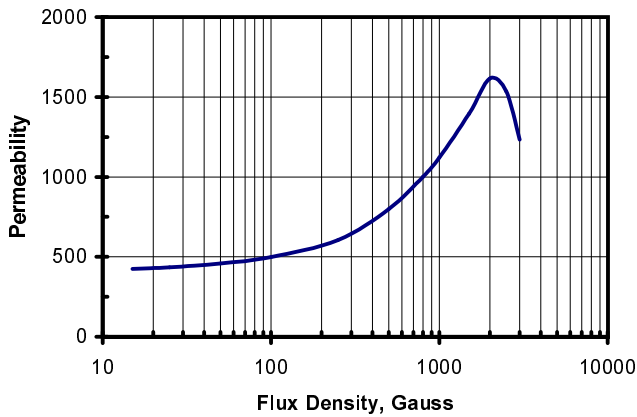
Unless otherwise specified, all tests were performed at 10 KHz, 22°C

B<sub>s</sub> tested at 1 KHz, 50 Oersted • B<sub>r</sub>, H<sub>c</sub> at 1 KHz, 5 Oersted

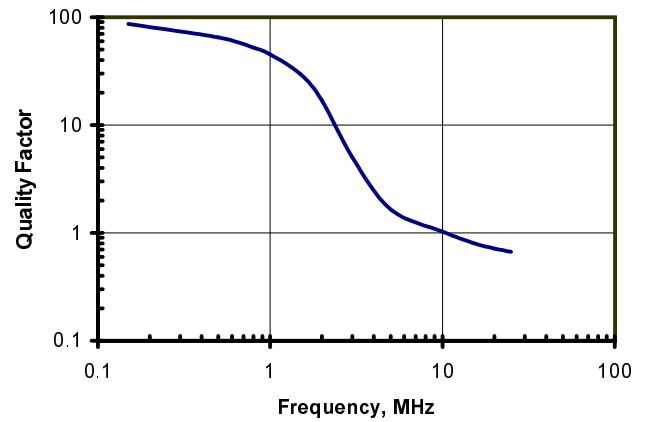
Initial Permeability vs. Temperature



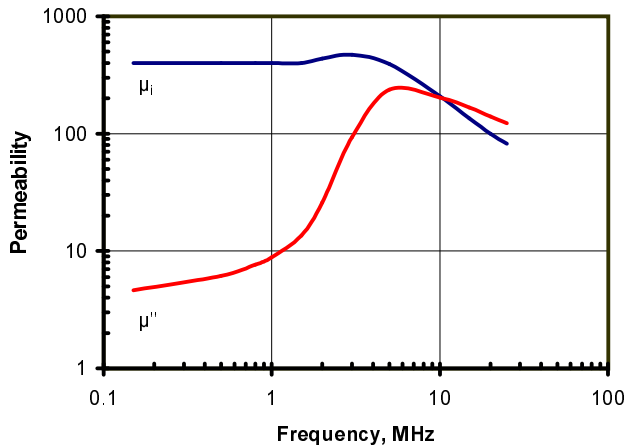
Permeability vs. Flux Density



Quality Factor vs. Frequency



Complex Permeability &  $\mu_i$  vs. Frequency



BH Loop Parameters vs. Temperature

