



# XCK

## High Frequency Ni-Zn Ferrite

*This material is suitable for fixed frequency operation at 13.5 MHz with a high Q and permeability of 125. Standard core geometries are toroids and baluns for inductive and transmission line coupled transformers with bandwidth in the 5 to 50 MHz range.*

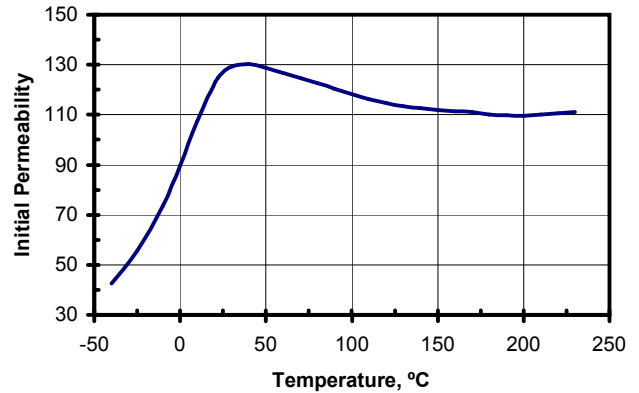
### Typical Properties

<b>Initial Permeability</b>	<b>125</b>
<b>Maximum Permeability</b>	<b>350</b>
<b>Saturation Flux Density</b>	<b>2500 Gauss</b>
<b>Remanent Flux Density</b>	<b>650 Gauss</b>
<b>Coercive Force</b>	<b>0.95 Oersted</b>
<b>Curie Temperature</b>	<b>400°C</b>
<b>dc Volume Resistivity</b>	<b>10<sup>9</sup> ohm-cm</b>
<b>Bulk Density</b>	<b>4.25 g/cc</b>

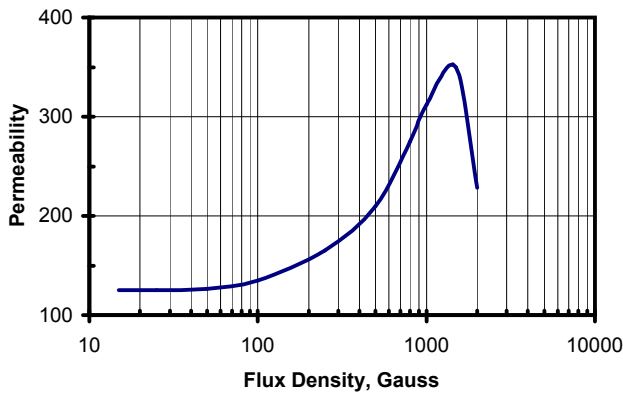
Unless otherwise specified, all tests were performed at 10 KHz, 22°C

Bs tested at 1 KHz, 40 Oersted • Br, Hc at 1 KHz, 5 Oersted

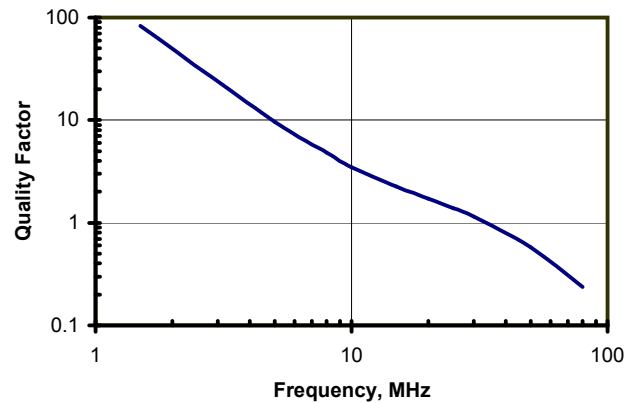
### Initial Permeability vs. Temperature



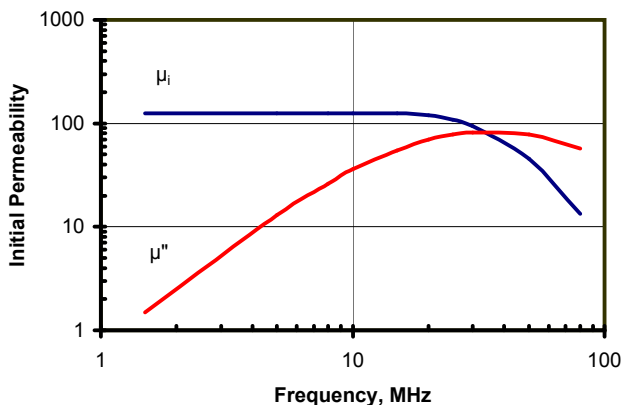
### Permeability vs. Flux Density



### Quality Factor vs. Frequency



### Initial Permeability vs. Frequency



### BH Loop Parameters vs. Temperature

