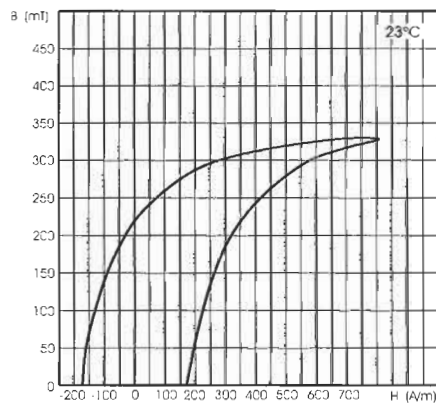


F14 Material

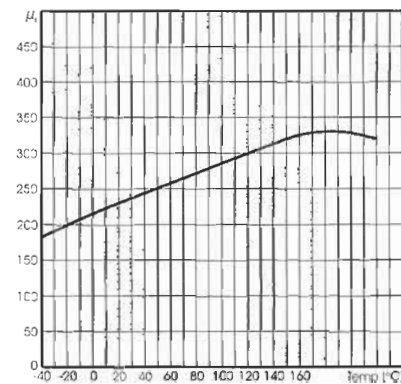
A Nickel-Zinc ferrite designed for the medium frequency range offering low losses up to 3 MHz, or for use in suppression applications up to 200 MHz. Typical applications: RF suppression, balun transformers, aerial rods, and medium frequency tuned circuits. This material was specially formulated for low Hum Modulation in power choke applications. Typical core shapes: Ring cores, rods, tubes, beads, choke cores, and balun cores.

Parameter	Symbol	Unit	Standard Conditions of Test	Value
Initial Permeability (Nominal)	μ_i	—	B<0.1mT 10kHz 25°C	220 ± 20%
Saturation Flux Density (typical)	B_{sat}	mT	H=1200 A/m =15 Oe 25°C, 100°C	350
Residual Flux Density (typical)	B_r	mT	H \rightarrow 0 (from near Saturation) 10kHz 25°C	217
Coercive force (Typical)	H_c	A/m	B \rightarrow 0 (from near Saturation) 10kHz 25°C	172
Relative Loss Factor (maximum)	Tan δ/μ_i	10 ⁻⁶	B<0.1mT 1 MHz 25°C	42
Curie Temperature (minimum)	T_c	°C	B<0.1mT 1kHz	140
Normalized Impedance	Z	Ω	—	—
Volume Resistivity (typical)	ρ	Ω -cm	1V/cm 25°C	1 X 10 ⁸

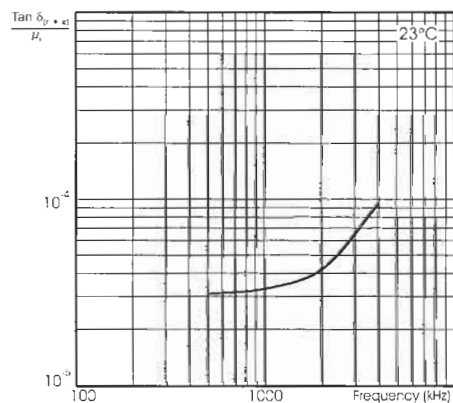
Dynamic Magnetization (BH) Loop



Initial Permeability vs. Temperature



Relative Loss Factor vs. Frequency



Complex Permeability vs. Frequency

