



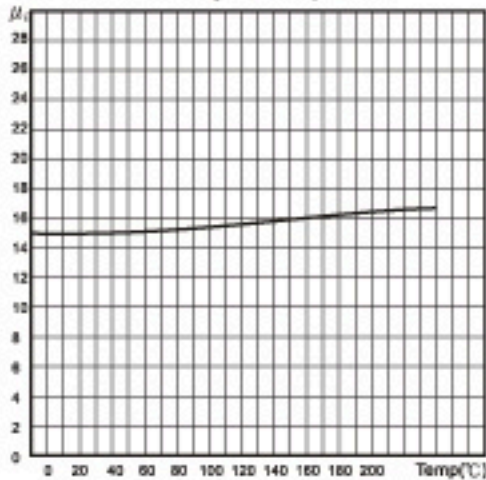
Ferrite Cores

Materials: GL5E

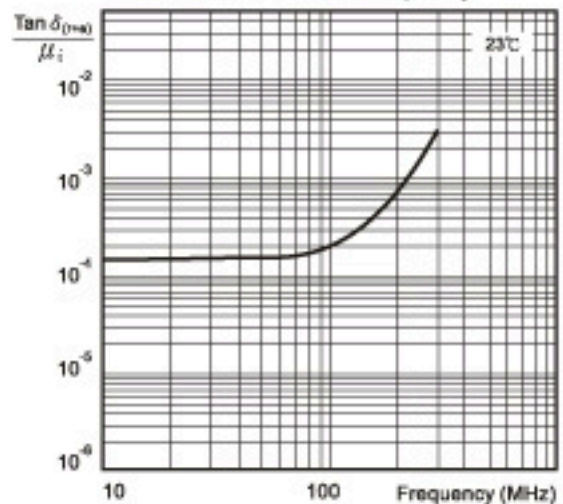
Parameter	Symbol	Standard Conditions of test	Unit	GL5E
Initial Permeability (nominal)	μ_i	B<0.1mT 10kHz 25°C	-	15
Saturation Flux Density (typical)	B_{sat}	H=4000 A/m =50 Oe 25°C 100°C	mT	220
Remanent Flux Density (typical)	B_r	H→0 (from near Saturation) 10kHz 25°C	mT	135
Coercivity (typical)	H_c	B→0 (from near Saturation) 10kHz 25°C	A/m	1600
Loss Factor (maximum)	$\frac{\text{Tan } \delta_{(1+\omega)}}{\mu_i}$	B<0.1mT 100MHz 25°C	10^{-4}	225
Curie Temperature (minimum)	θ_c	B<0.25mT 10kHz	°C	500
Resistivity (typical)	ρ	1 V/cm 25°C	ohm-cm	2×10^4

A nickel-zinc ferrite yielding very high Q values to 200MHz. Used extensively in antenna and other RF applications in the 50 to 200MHz range. Available in a variety of toroidal, multi-aperture, and bead cores, coilforms, and bobbins.

Initial Permeability vs. Temperature



Relative Loss Factor vs. Frequency



Complex Permeability vs. Frequency

