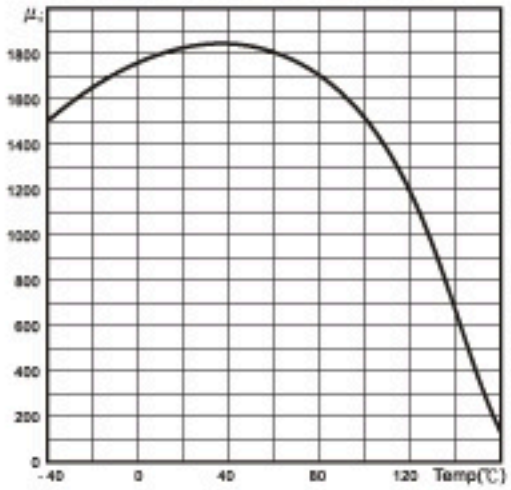
■ Materials: GL18

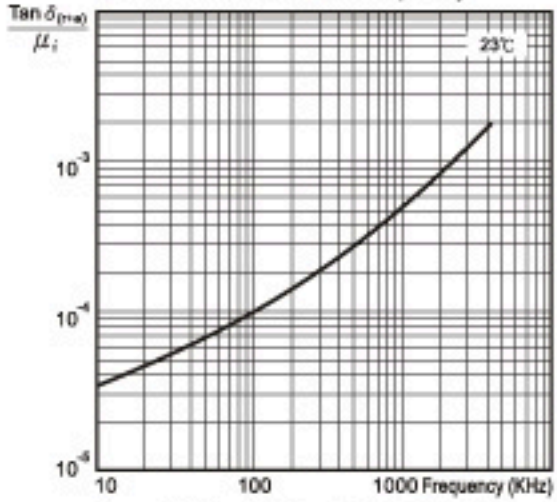
Parameter	Symbol	Standard Conditions of test	Unit	GL18
Initial Permeability (nominal)	μ_i	B<0.1mT 10kHz 25℃	-	1800
Saturation Flux Density (typical)	B_{sat}	H=1200 A/m =15 Oe 25℃ 100℃	mT	250
Remanent Flux Density (typical)	B_r	H→0 (from near Saturation) 10kHz 25℃	mT	170
Coercivity (typical)	H_c	B→0 (from near Saturation) 10kHz 25℃	A/m	28
Loss Factor (maximum)	$\frac{\text{Tan}\,\delta_{(\mu+\varepsilon)}}{\mu_i}$	B<0.1mT 25℃ 100kHz	10^{-6}	150
Curie Temperature (minimum)	θ_c	B<0.10mT 10kHz	℃	100
Resistivity (typical)	ρ	1 V/cm 25℃	ohm-cm	10^7

A high permeability nickel-zinc ferrite specially formulated for high inductance at low frequencies in broadband applications without having the dielectric constant of manganese-zine ferrites. Can be used in broadband applications into the GHz region. It also features very high volume resistivity. Available in a variety of toroidal, multi aperture, and bead cores, coilforms, and bobbins.

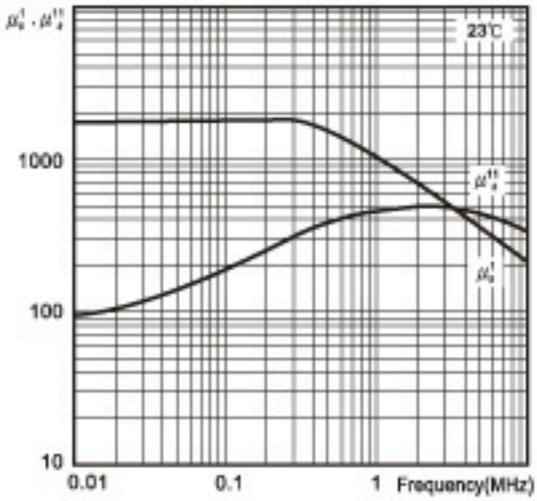
Initial Permeability vs. Temperature



Relative Loss Factor vs. Frequency



Complex Permeability vs. Frequency



Dynamic Magnetisation: Typical B-H Loop