F31

Material Type: Nickel-Zinc Ferrite

Properties: Very high Q at high frequency
Perminvar ferrite
Good stability of inductance

Frequency Range: 50 to 200 MHz (subject to application)

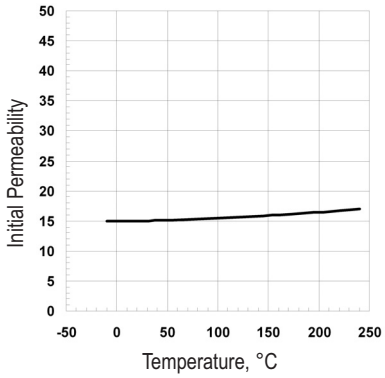
Typical Application: Antenna, filters and RF frequency tuned circuits

Standard Geometries: Toroids, baluns and rods
Additional shapes are available upon request

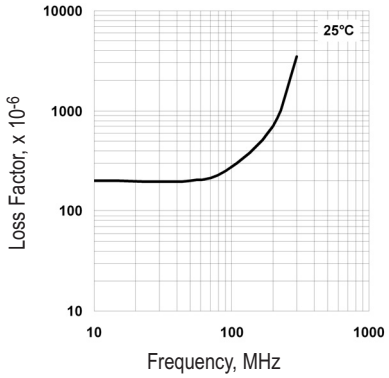
Parameter	Symbol	Standard Test Conditions			Unit	Value
Initial Permeability *(nominal)*	μ_i	B < 0.1 mT	f = 10 kHz	T = 25°C	-	15
Saturation Flux Density *(typical)*	B_s	H = 4000 A/m (50 Oe)		T = 25°C	mT	220
Remanent Flux Density *(typical)*	B_r	H ~ 0 A/m (from near saturation) f = 10 kHz		T = 25°C	mT	135
Coercivity *(typical)*	H_c	B ~ 0 mT (from near saturation) f = 10 kHz		T = 25°C	A/m	1600
Loss Factor *(maximum)*	$\frac{\tan \delta}{\mu_i}$	B < 0.1 mT	f = 40 MHz	T = 25°C	10^{-6}	225
Curie Temperature *(minimum)*	T_c	B < 0.1 mT	f = 10 kHz		°C	400
Resistivity *(typical)*	ρ	E = 1 V/cm		T = 25°C	$\Omega \cdot$ cm	2×10^4

* Data was derived from measurements made on a standard test toroid core with an outside diameter of 30 mm

Permeability vs Temperature



Loss Factor vs Frequency



Permeability vs Frequency