



MMG Canada Limited

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	$\Omega \cdot \text{cm}$	2×10^4

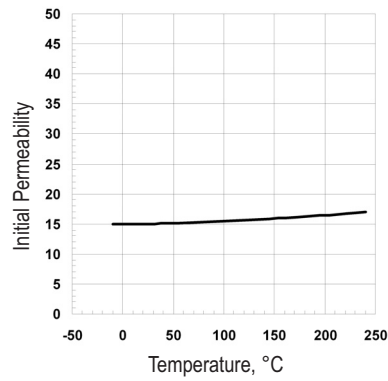
* Data was derived from measurements made on a standard test toroid core with an outside diameter of 30 mm



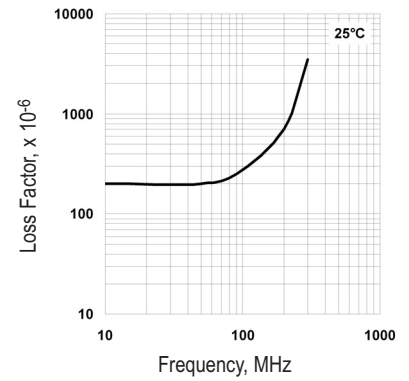


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Permeability vs Temperature



Loss Factor vs Frequency



Permeability vs Frequency

