



MMG Canada Limited

F21C

Material Type: Nickel-Zinc Ferrite

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

Frequency Range: 1 to 40 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	$B < 0.1 \text{ mT}$ $f = 10 \text{ kHz}$ $T = 25^\circ\text{C}$	-	40
Saturation Flux Density (typical)	B_s	$H = 4000 \text{ A/m (50 Oe)}$ $T = 25^\circ\text{C}$	mT	240
Remanent Flux Density (typical)	B_r	$H \sim 0 \text{ A/m (from near saturation)}$ $f = 10 \text{ kHz}$ $T = 25^\circ\text{C}$	mT	40
Coercivity (typical)	H_c	$B \sim 0 \text{ mT (from near saturation)}$ $f = 10 \text{ kHz}$ $T = 25^\circ\text{C}$	A/m	280
Loss Factor (maximum)	$\frac{\tan \delta}{\mu_i}$	$B < 0.1 \text{ mT}$ $f = 40 \text{ MHz}$ $T = 25^\circ\text{C}$	10^{-6}	85
Curie Temperature (minimum)	T_c	$B < 0.1 \text{ mT}$ $f = 10 \text{ kHz}$	$^\circ\text{C}$	450
Resistivity (typical)	ρ	$E = 1 \text{ V/cm}$ $T = 25^\circ\text{C}$	$\Omega \cdot \text{cm}$	1×10^6

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

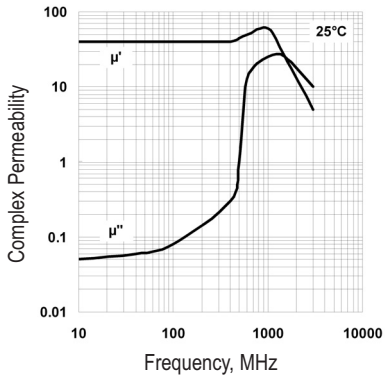




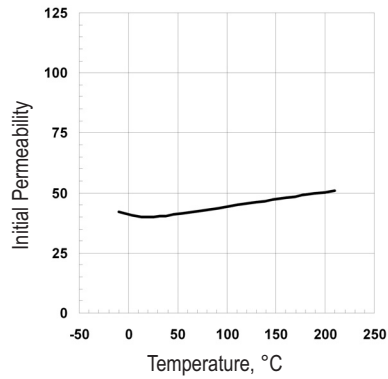
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Permeability vs Frequency



Permeability vs Temperature



Loss Factor vs Frequency

