F01

MMG Canada Limited

Material Type: Nickel-Zinc Ferrite

Properties: Good Q at high frequency
Perminvar ferrite
Low loss factor at high frequency

Frequency Range: 500 kHz to 20 MHz (subject to application)

Typical Application: Filters, high Q inductors, RF frequency tuned circuits and EMI supression

Standard Geometries: Toroids, baluns and rod cores
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	-	120
Saturation Flux Density *(typical)*	B_s	H = 4000 A/m (50 Oe) T = 25°C	mT	280
Remanent Flux Density *(typical)*	B_r	H ~ 0 A/m (from near saturation) f = 10 kHz T = 25°C	mT	190
Coercivity *(typical)*	H_c	B ~ 0 mT (from near saturation) f = 10 kHz T = 25°C	A/m	30
Loss Factor *(maximum)*	$\frac{\tan \delta}{\mu_i}$	B < 0.1 mT f = 2 MHz T = 25°C	10^{-6}	45
Curie Temperature *(minimum)*	T_c	B < 0.1 mT f = 10 kHz	°C	300
Resistivity *(typical)*	ρ	E = 1 V/cm T = 25°C	$\Omega \cdot$ cm	1×10^7

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

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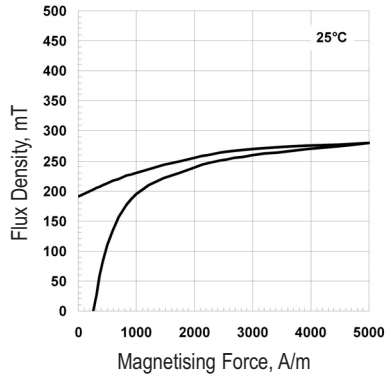
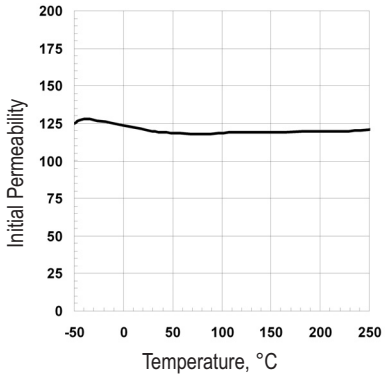
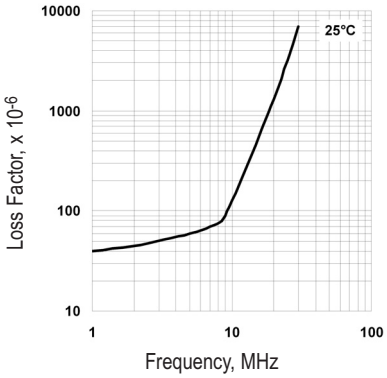
Dynamic Magnetisation Curve



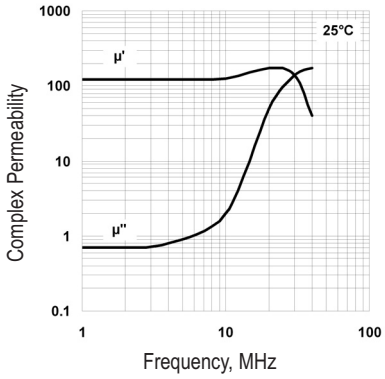
Permeability vs Temperature



Loss Factor vs Frequency



Permeability vs Frequency



Impedance vs Frequency