



MMG Canada Limited

FTAX

Material Type: Manganese-Zinc Ferrite

Properties: Very high permeability, Low loss
High curie temperature
High saturation flux density

Frequency Range: DC to 400 kHz (subject to application)

Typical Application: Broadband and pulse transformers, balanced and common mode chokes, T1/E1 and DSL transformers

Standard Geometries: Toroids, baluns, EP, pot cores.
Additional shapes are available upon request



Parameter	Symbol	Standard Test Conditions			Unit	Value
Initial Permeability (nominal)	μ_i	$B < 0.1 \text{ mT}$	$f = 10 \text{ kHz}$	$T = 25^\circ\text{C}$	-	10000
Saturation Flux Density (typical)	B_s	$H = 796 \text{ A/m (10 Oe)}$		$T = 25^\circ\text{C}$	mT	420
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	140
Coercivity (typical)	H_c	$B \sim 0 \text{ mT (from near saturation)}$ $f = 10 \text{ kHz}$		$T = 25^\circ\text{C}$	A/m	5
Loss Factor (maximum)	$\frac{\tan \delta}{\mu_i}$	$B < 0.1 \text{ mT}$	$f = 100 \text{ kHz}$	$T = 25^\circ\text{C}$	10^{-6}	25
Curie Temperature (minimum)	T_c	$B < 0.1 \text{ mT}$	$f = 10 \text{ kHz}$		$^\circ\text{C}$	130
Resistivity (typical)	ρ	$E = 1 \text{ V/cm}$		$T = 25^\circ\text{C}$	$\Omega \cdot \text{cm}$	45

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

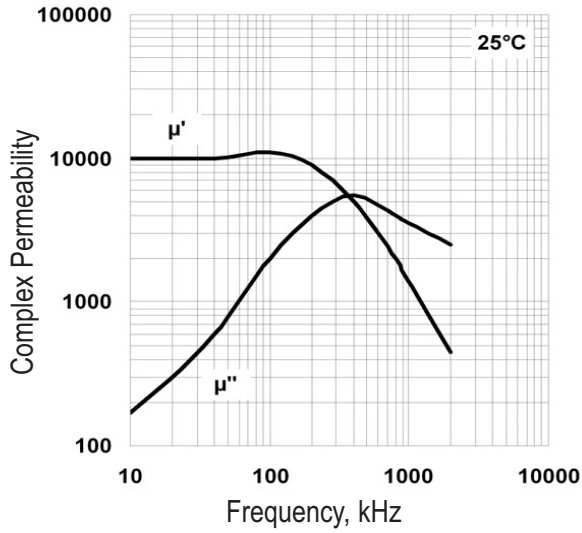




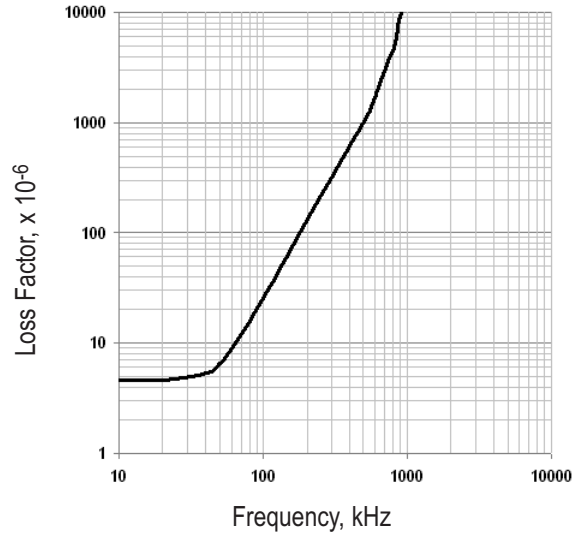
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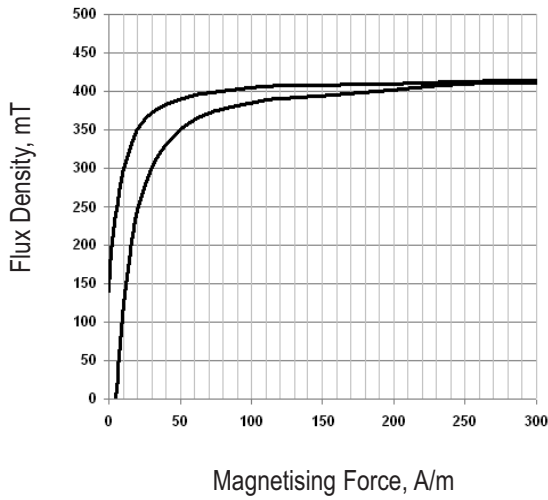
Permeability vs Frequency



Loss Factor vs Frequency



Dynamic Magnetisation Curve



Permeability vs Temperature

