



MMG Canada Limited

FT7

Material Type: Manganese-Zinc Ferrite

Properties: Very high permeability
High curie temperature
High saturation flux density

Frequency Range: DC to 300 kHz (subject to application)

Typical Application: Broadband and pulse transformers, common mode chokes and inductors

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



Parameter	Symbol	Standard Test Conditions			Unit	Value
Initial Permeability <i>(nominal)</i>	μ_i	$B < 0.1 \text{ mT}$	$f = 10 \text{ kHz}$	$T = 25^\circ\text{C}$	-	7500
Saturation Flux Density <i>(typical)</i>	B_s	$H = 796 \text{ A/m (10 Oe)}$		$T = 25^\circ\text{C}$	mT	420
Remanent Flux Density <i>(typical)</i>	B_r	$H \sim 0 \text{ A/m (from near saturation)}$		$f = 10 \text{ kHz}$	mT	130
Coercivity <i>(typical)</i>	H_c	$B \sim 0 \text{ mT (from near saturation)}$		$f = 10 \text{ kHz}$	A/m	10
Loss Factor <i>(maximum)</i>	$\frac{\tan \delta}{\mu_i}$	$B < 0.1 \text{ mT}$	$f = 100 \text{ kHz}$	$T = 25^\circ\text{C}$	10^{-6}	50
Curie Temperature <i>(minimum)</i>	T_c	$B < 0.1 \text{ mT}$	$f = 10 \text{ kHz}$		$^\circ\text{C}$	150
Resistivity <i>(typical)</i>	ρ	$E = 1 \text{ V/cm}$		$T = 25^\circ\text{C}$	$\Omega \cdot \text{cm}$	10

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

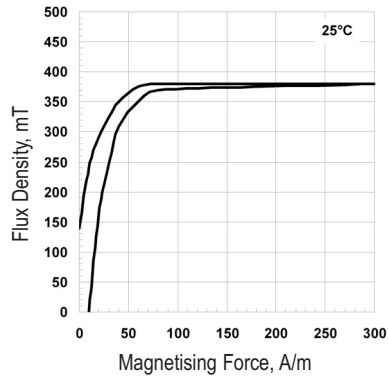




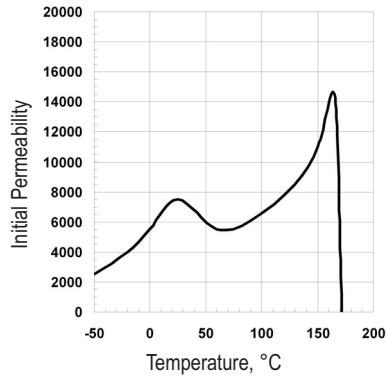
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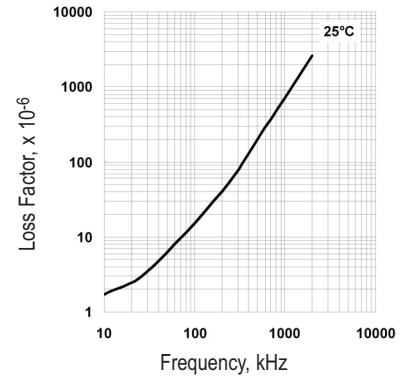
Dynamic Magnetisation Curve



Permeability vs Temperature



Loss Factor vs Frequency



Permeability vs Frequency

