MMG Canada Limited

F82BXH/ FT82BXH

Material Type: Manganese-Zinc Ferrite

Properties: High curie temperature High saturation flux density
Good performance with frequency
Very stable, high DC Bias Grade

Frequency Range: DC to 1 MHz (subject to application)

Typical Application: Wideband and pulse transformers, filters and common mode chokes

Standard Geometries: Toroids, baluns, E, RM and pot 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	-	5800
Saturation Flux Density *(typical)*	B_s	H = 796 A/m (10 Oe)		T = 25°C	mT	470
Remanent Flux Density *(typical)*	B_r	H ~ 0 A/m (from near saturation) f = 10 kHz		T = 25°C	mT	110
Coercivity *(typical)*	H_c	B ~ 0 mT (from near saturation) f = 10 kHz		T = 25°C	A/m	2.0
Loss Factor *(maximum)*	$\frac{\tan \delta}{\mu_i}$	B < 0.1 mT	f = 100 kHz	T = 25°C	10^{-6}	< 13
Curie Temperature *(minimum)*	T_c	B < 0.1 mT	f = 10 kHz		°C	200
Resistivity *(typical)*	ρ	E = 1 V/cm		T = 25°C	$\Omega \cdot$ cm	100

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

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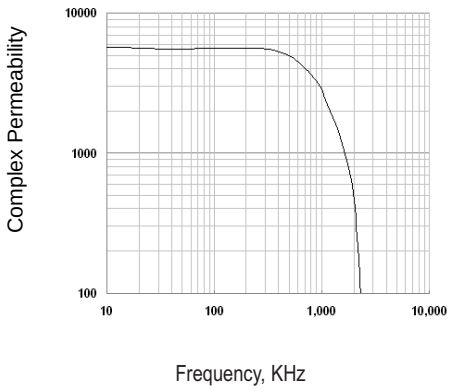
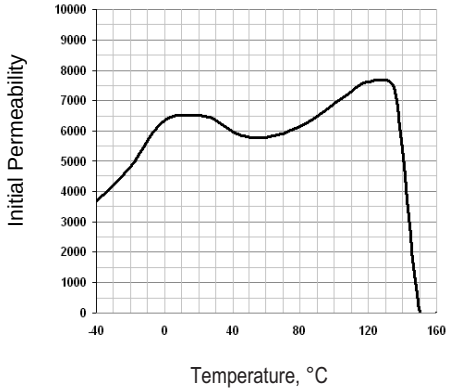
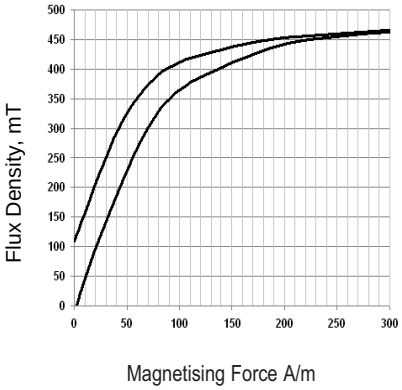
Permeability vs Frequency



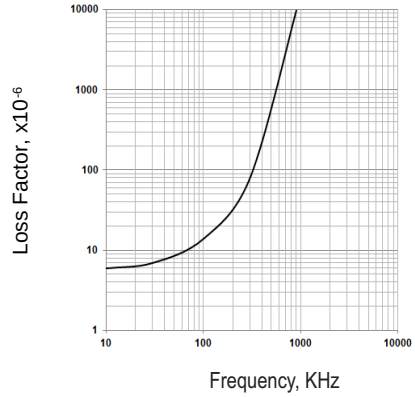
Permeability vs Temperature



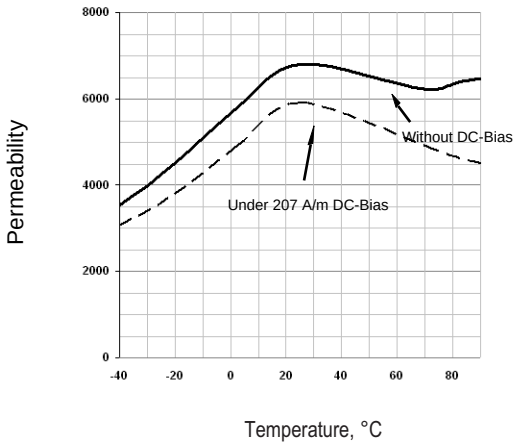
Dynamic Magnetisation Curve



Loss Factor vs Frequency



Permeability vs Temperature



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