

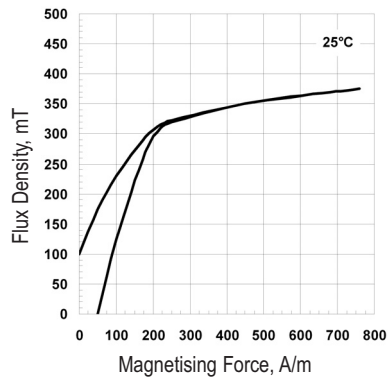
Material Type:	Manganese-Zinc Ferrite
Properties:	High stability of inductance Low temperature coefficient Low loss factor at high frequency
Frequency Range:	200 kHz to 1 MHz (subject to application)
Typical Application:	Filters, proximity switches and gate drive transformers for switch mode power supplies
Standard Geometries:	Toroids, RM and pot cores Additional shapes are available upon request



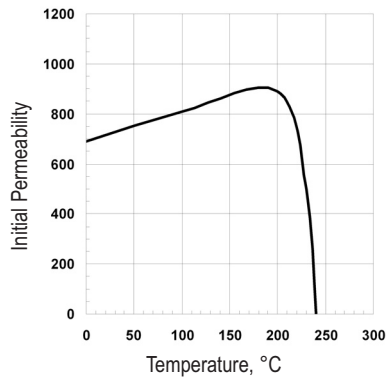
Parameter	Symbol	Standard Test Conditions			Unit	Value
Initial Permeability (nominal)	μ_i	$B < 0.1 \text{ mT}$	$f = 10 \text{ kHz}$	$T = 25^\circ\text{C}$	-	750
Saturation Flux Density (typical)	B_s	$H = 796 \text{ A/m (10 Oe)}$		$T = 25^\circ\text{C}$	mT	400
Remanent Flux Density (typical)	B_r	$H \sim 0 \text{ A/m (from near saturation)}$ $f = 10 \text{ kHz}$		$T = 25^\circ\text{C}$	mT	94
Coercivity (typical)	H_c	$B \sim 0 \text{ mT (from near saturation)}$ $f = 10 \text{ kHz}$		$T = 25^\circ\text{C}$	A/m	47
Loss Factor (maximum)	$\tan \delta$ μ_i	$B < 0.1 \text{ mT}$	$f = 200 \text{ kHz}$	$T = 25^\circ\text{C}$	10^{-6}	12
		$B < 0.1 \text{ mT}$	$f = 1 \text{ MHz}$	$T = 25^\circ\text{C}$		20
Curie Temperature (minimum)	T_c	$B < 0.1 \text{ mT}$	$f = 10 \text{ kHz}$		$^\circ\text{C}$	200
Disaccommodation Factor (maximum)	D_F	$B < 0.25 \text{ mT}$	$f = 10 \text{ kHz}$	$T = 25^\circ\text{C}$	10^{-6}	12
Relative Temperature Factor (typical)	$\frac{\Delta\mu}{\mu_i^2\Delta T}$	$B < 0.1 \text{ mT}$	$f = 10 \text{ kHz}$	$T = 25 \text{ to } 55^\circ\text{C}$	$10^{-6}/^\circ\text{C}$	0.5 to 2.3
Resistivity (typical)	ρ	$E = 1 \text{ V/cm}$		$T = 25^\circ\text{C}$	$\Omega \cdot \text{cm}$	100

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

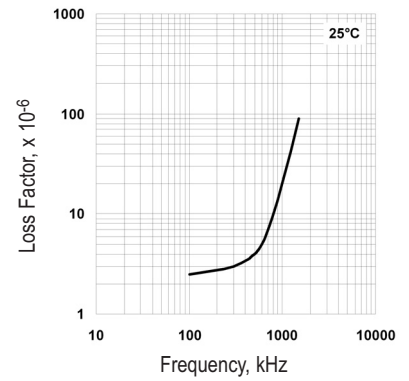
Dynamic Magnetisation Curve



Permeability vs Temperature



Loss Factor vs Frequency



Permeability vs Frequency

