

**Material Type:** Manganese-Zinc Ferrite

**Properties:** High stability of inductance  
Low temperature coefficient  
Low loss factor  
Medium permeability

**Frequency Range:** 10 kHz to 500 kHz (subject to application)

**Typical Application:** Filter networks and proximity detectors

**Standard Geometries:** RM and pot cores  
Additional shapes are available upon request



Parameter	Symbol	Standard Test Conditions			Unit	Value
Initial Permeability (nominal)	$\mu_i$	$B < 0.1 \text{ mT}$	$f = 10 \text{ kHz}$	$T = 25^\circ\text{C}$	-	2250
Saturation Flux Density (typical)	$B_s$	$H = 796 \text{ A/m (10 Oe)}$		$T = 25^\circ\text{C}$	mT	380
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	70
Coercivity (typical)	$H_c$	$B \sim 0 \text{ mT (from near saturation)}$ $f = 10 \text{ kHz}$		$T = 25^\circ\text{C}$	A/m	18
Loss Factor (maximum)	$\tan \delta$ $\mu_i$	$B < 0.1 \text{ mT}$	$f = 10 \text{ kHz}$	$T = 25^\circ\text{C}$	$10^{-6}$	1.5
		$B < 0.1 \text{ mT}$	$f = 100 \text{ kHz}$	$T = 25^\circ\text{C}$		5.0
Curie Temperature (minimum)	$T_c$	$B < 0.1 \text{ mT}$	$f = 10 \text{ kHz}$		$^\circ\text{C}$	150
Disaccommodation Factor (maximum)	$D_F$	$B < 0.25 \text{ mT}$	$f = 10 \text{ kHz}$	$T = 25^\circ\text{C}$	$10^{-6}$	4
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 1.5
Resistivity (typical)	$\rho$	$E = 1 \text{ V/cm}$		$T = 25^\circ\text{C}$	$\Omega \cdot \text{cm}$	100

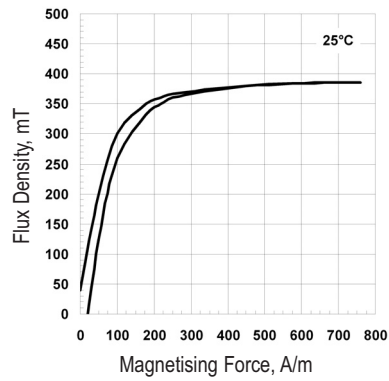
\* Data was derived from measurements made on a standard test toroid core with an outside diameter of 30 mm



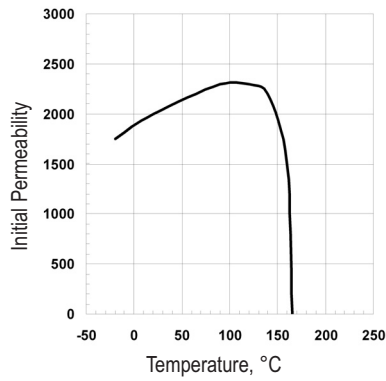
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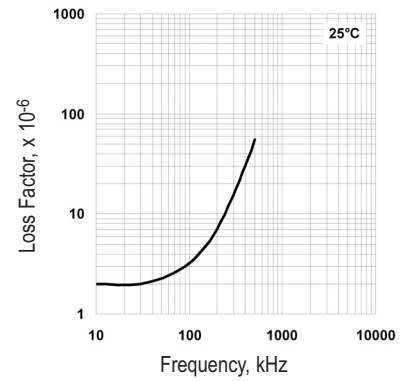
Dynamic Magnetisation Curve



Permeability vs Temperature



Loss Factor vs Frequency



Permeability vs Frequency

