

FT6

Material Type: Manganese-Zinc Ferrite

Properties: High permeability
Good saturation flux density
Optimized impedance from 1 to 20 MHz

Frequency Range: DC to 500 kHz (subject to application)

Typical Application: Filters, pulse and wideband transformers

Standard Geometries: Toroids, baluns, EP, RM 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 mT f = 10 kHz T = 25°C	-	6000
Saturation Flux Density <i>(typical)</i>	B_s	H = 1200 A/m (15 Oe) T = 25°C	mT	430
Remanent Flux Density <i>(typical)</i>	B_r	H ~ 0 A/m (from near saturation) f = 10 kHz T = 25°C	mT	150
Coercivity <i>(typical)</i>	H_c	B ~ 0 mT (from near saturation) f = 10 kHz T = 25°C	A/m	15
Loss Factor <i>(maximum)</i>	$\frac{\tan \delta}{\mu_i}$	B < 0.1 mT f = 2 MHz T = 25°C	10^{-6}	25
Curie Temperature <i>(minimum)</i>	T_c	B < 0.1 mT f = 10 kHz	°C	140
Resistivity <i>(typical)</i>	ρ	E = 1 V/cm T = 25°C	$\Omega \cdot \text{cm}$	20

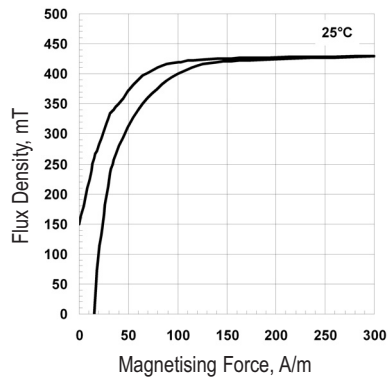
* Data was derived from measurements made on a standard test toroid core with an outside diameter of 30 mm



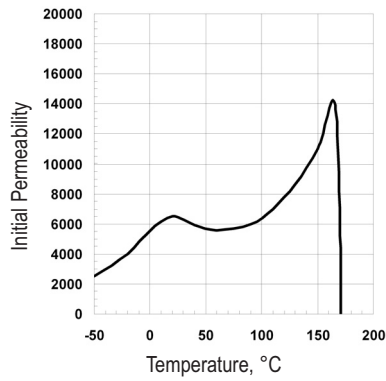
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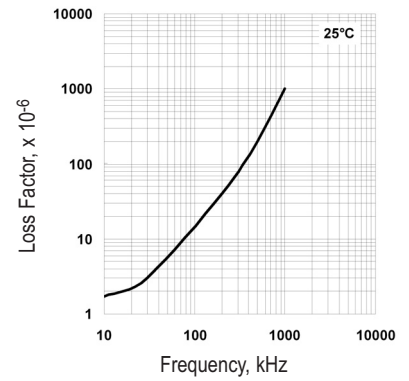
Dynamic Magnetisation Curve



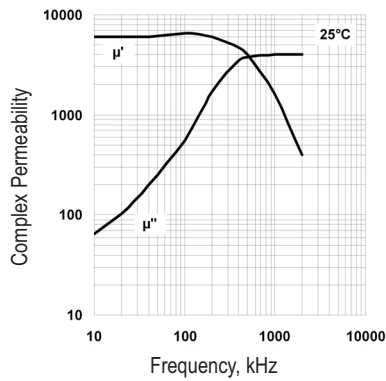
Permeability vs Temperature



Loss Factor vs Frequency



Permeability vs Frequency



Impedance vs Frequency

