

F10

Material Type: Manganese-Zinc Ferrite

Properties: High permeability.

Frequency range: Depends on application

Typical Applications: Wideband, Pulse Transformers and Filter applications.

Available core shapes: Ring, E, EP, RM & Pot Cores.

Material Specification

Parameter	Symbol	Standard Conditions of test	Unit	F10
Initial Permeability (nominal)	-	B<0.1mT 10kHz 25°C	-	6000 ±20%
Saturation Flux Density (typical)	B_{sat}	H=796 A/m = 10 Oe 25°C	mT	380
Remanent Flux Density (typical)	B_r	H→ 0 (from near Saturation) 10kHz 25°C	mT	200
Coercivity (typical)	H_c	B→ 0 (from near Saturation) 10kHz 25°C	A/m	16
Loss Factor (maximum)	$\frac{\tan \delta_{(f+\theta)}}{\mu_i}$	B<0.10mT 10kHz 25°C		10⁻⁶ -
Curie Temperature (minimum)	Θ_C	B<0.10mT 10kHz	°C	130
Temperature Factor	$\frac{\Delta\mu}{\mu_i^2 \cdot \Delta T}$	+25°C to +55°C B<0.10mT 10kHz	°C	-1 to +2
Resistivity (typical)	ρ	1 V/cm 25°C	ohm-cm	50

