

Material Type: Manganese-Zinc Ferrite

- Properties:**
- *High permeability
 - *High saturation
 - *Improved frequency response (depending on application)
 - *High Curie temperature

Frequency range: Depends on application

Typical Applications: Specially developed for Mains filtering, Wideband and Pulse Transformers

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

Parameter	Symbol	Standard Conditions of test	Unit	F9C
Initial Permeability (nominal)	-	B<0.1mT 10kHz 25°C	-	5000 ±20%
Saturation Flux Density (typical)	B _{sat}	H=796 A/m = 10 Oe 25°C	mT	460
Remanent Flux Density (typical)	B _r	H→ 0 (from near Saturation) 10kHz 25°C	mT	170
Coercivity (typical)	H _c	B→ 0 (from near Saturation) 10kHz 25°C	A/m	13
Loss Factor (maximum)	$\frac{\tan \delta_{(r+s)}}{\mu_i}$	B<0.10mT 10kHz 25°C	10 ⁻⁶	20
Curie Temperature (minimum)	Θ _C	B<0.10mT 10kHz	°C	160
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

