

F9

Material Type: Manganese-Zinc Ferrite

Properties: High permeability.

Frequency range: Depends on application

Typical Applications: Wideband & Pulse Transformers, Filter & Interference Suppression applications.

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

Material Specification

Parameter	Symbol	Standard Conditions of test	Unit	F9
Initial Permeability (nominal)	-	B<0.1mT 10kHz 25°C	-	4400 ±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	180
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		20
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	0 to +2
Resistivity (typical)	ρ	1 V/cm 25°C	ohm-cm	50

