

F16

Special Grade

Material Specification

Material Type: Nickel-Zinc Ferrite

Properties: Low loss factors at high frequency

Frequency range: 500kHz-10MHz
(Subject to application)

Typical Applications: Aerial rods and tuned circuits.

Available core shapes: On request.

Parameter	Symbol	Standard Conditions of test	Unit	F16
Initial Permeability (nominal)	-	B<0.1mT 10kHz 25°C	-	125 ±20%
Saturation Flux Density (typical)	B _{sat}	H=796 A/m = 10 Oe 25°C	mT	340
Remanent Flux Density (typical)	B _r	H→ 0 (from near Saturation) 10kHz 25°C	mT	260
Coercivity (typical)	H _c	B→ 0 (from near Saturation) 10kHz 25°C	A/m	200
Loss Factor (maximum)	$\frac{\tan \delta_{(f+\omega)}}{\mu_i}$	B<0.10mT 25°C	1MHz 5MHz 10MHz	60 65 100
Curie Temperature (minimum)	Θ _C	B<0.10mT 10kHz	°C	270
Temperature Factor	$\frac{\Delta \mu}{\mu_i^2 \cdot \Delta T}$	+25°C to +55°C B<0.10mT	10kHz °C	20 to 50
Resistivity (typical)	ρ	1 V/cm 25°C	ohm-cm	10⁵

