

# 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	-	<b>125</b> ±20%
Saturation Flux Density (typical)	B <sub>sat</sub>	H=796 A/m = 10 Oe 25°C	mT	<b>340</b>
Remanent Flux Density (typical)	B <sub>r</sub>	H→ 0 (from near Saturation) 10kHz 25°C	mT	<b>260</b>
Coercivity (typical)	H <sub>c</sub>	B→ 0 (from near Saturation) 10kHz 25°C	A/m	<b>200</b>
Loss Factor (maximum)	$\frac{\tan \delta_{(f+\epsilon)}}{\mu_i}$	B<0.10mT 25°C	1MHz 5MHz 10MHz	<b>60</b> <b>65</b> <b>100</b>
Curie Temperature (minimum)	Θ <sub>C</sub>	B<0.10mT 10kHz	°C	<b>270</b>
Temperature Factor	$\frac{\Delta\mu}{\mu_i^2 \cdot \Delta T}$	+25°C to +55°C B<0.10mT	10kHz °C	<b>20 to 50</b>
Resistivity (typical)	ρ	1 V/cm 25°C	ohm-cm	<b>10<sup>5</sup></b>

