

F19

Material Type: Nickel-Zinc Ferrite

- Properties:**
- *Medium permeability
 - *Low loss factors at low frequencies
 - *High impedance at megahertz frequencies

Frequency range: 100kHz - 1MHz (Low losses)
25MHz - 100MHz (High impedance)

Typical Applications: SMD suppression

Available core shapes: Ring cores, beads, sleeves, cable suppressors, SM beads.

Material Specification

Parameter	Symbol	Standard Conditions of test	Unit	F19
Initial Permeability (nominal)	-	B<0.1mT 10kHz 25°C	-	1000 ±20%
Saturation Flux Density (typical)	B _{sat}	H=796 A/m = 10 Oe 25°C	mT	260
Remanent Flux Density (typical)	B _r	H→ 0 (from near Saturation) 10kHz 25°C	mT	165
Coercivity (typical)	H _c	B→ 0 (from near Saturation) 10kHz 25°C	A/m	53
Loss Factor (maximum)	$\frac{\tan \delta_{(f=0)}}{\mu_i}$	B<0.10mT 25°C	500kHz 1MHz	130 350
Curie Temperature (minimum)	Θ _C	B<0.10mT 10kHz	°C	120
Temperature Factor	$\frac{\Delta\mu}{\mu_i \cdot \Delta T}$	+25°C to +55°C B<0.10mT 10kHz	°C	3 to 6.5
Resistivity (typical)	ρ	1 V/cm 25°C	ohm-cm	10⁴

