

Material Type: Manganese-Zinc Ferrite

- Properties:**
- *Low loss power grade.
 - *High saturation
 - *Losses minimised 80°C - 100°C
 - *Medium permeability

Frequency range: Up to 500kHz (depending upon flux density)

Typical Applications: SMPS.

Available core shapes: E, U, ETD, RM, Ring Cores.

Material Specification

Parameter	Symbol	Standard Conditions of test	Unit	F45
Initial Permeability (nominal)	-	B<0.1mT 10kHz 25°C	-	2000 ±20%
Saturation Flux Density (typical)	B _{sat}	H=796 A/m = 10 Oe 25°C 100°C	mT	500 380
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	15
Curie Temperature (minimum)	Θ _c	B<0.10mT 10kHz	°C	230
Resistivity (typical)	ρ	1 V/cm 25°C	ohm-cm	100
Amplitude Permeability (minimum)	μ _a	400mT 340mT 25°C 100°C	-	2500 2000
Total Power Loss Density (maximum)	P _v	100mT; 100kHz 200mT; 100kHz 100°C 100°C	mW/cm ³	80 400

