

F44

Material Type: Manganese-Zinc Ferrite

- Properties:**
- *Higher saturation power grade
 - *Higher amplitude permeability
 - *Low power losses in recommended frequency range
 - *Losses minimised above 70°C
 - *Medium permeability

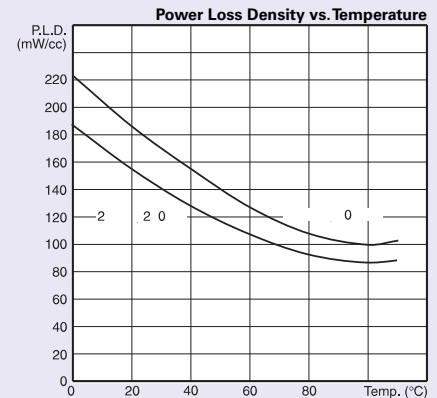
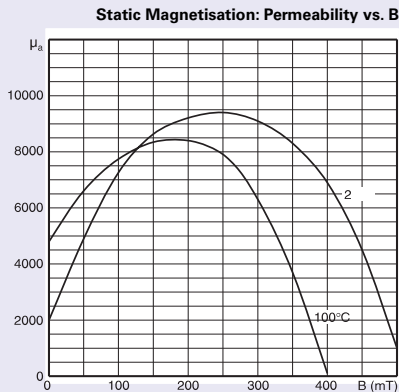
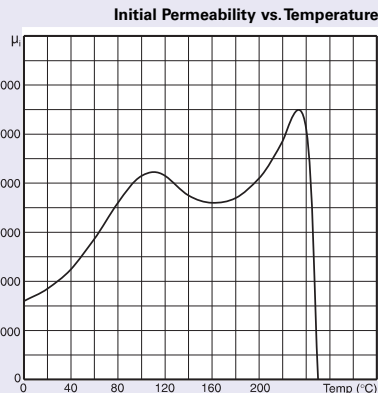
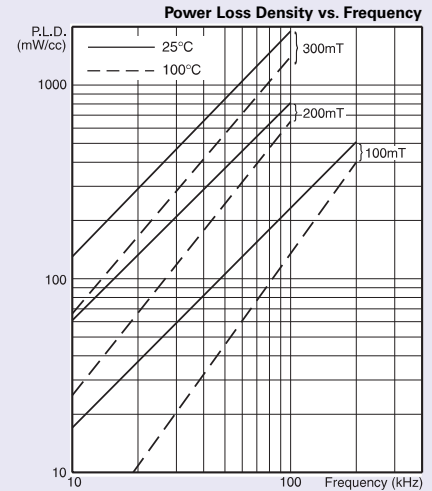
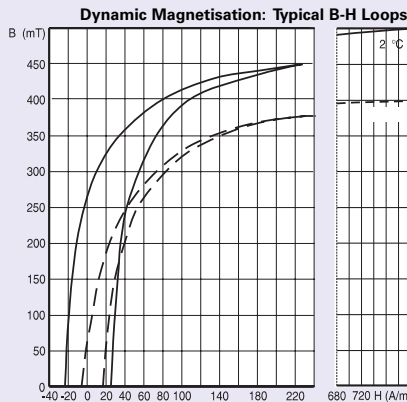
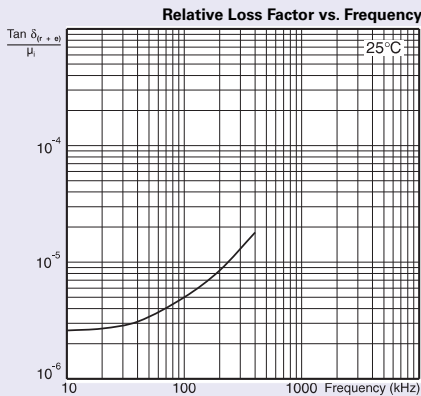
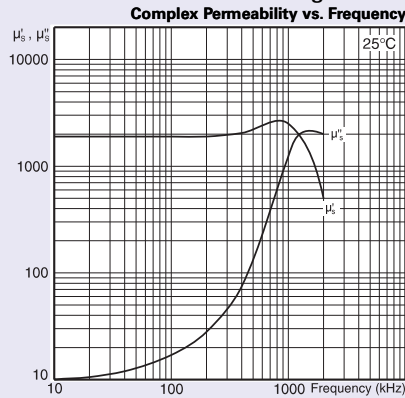
Frequency range: Up to 300kHz (depending upon flux density)

Typical Applications: SMPS, EHT Transformers, converters.

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

Material Specification

Parameter	Symbol	Standard Conditions of test	Unit	F44
Initial Permeability (nominal)		B<0.1mT 10kHz 25°C	-	1900 ±20%
Saturation Flux Density (typical)		H=796 A/m = 10 Oe 25°C 100°C	mT	500 400
Remanent Flux Density (typical)		H→ 0 (from near Saturation) 10kHz 25°C	mT	270
Coercivity (typical)		B→ 0 (from near Saturation) 10kHz 25°C	A/m	27
Curie Temperature (minimum)		B<0.10mT 10kHz	°C	230
Resistivity (typical)		1 V/cm 25°C	ohm-cm	100
Amplitude Permeability (minimum)		400mT 340mT 25°C 100°C	-	2500 1900
Total Power Loss Density (maximum)		200mT; 25kHz 200mT; 25kHz 100mT; 100kHz 100mT; 100kHz 200mT; 100kHz 25°C 100°C 25°C 100°C 100°C	mW/cm ³	200 130 250 160 750



Data is derived from measurements on a ring core of 30mm outside diameter.