

F39

Material Type: Manganese-Zinc Ferrite

Properties: Very high permeability

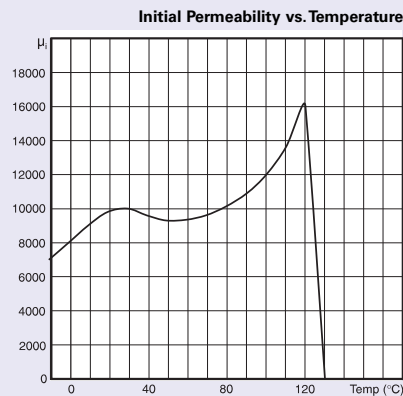
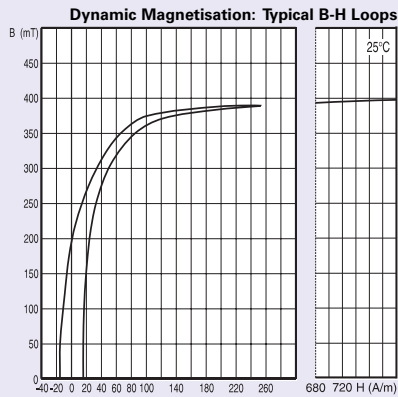
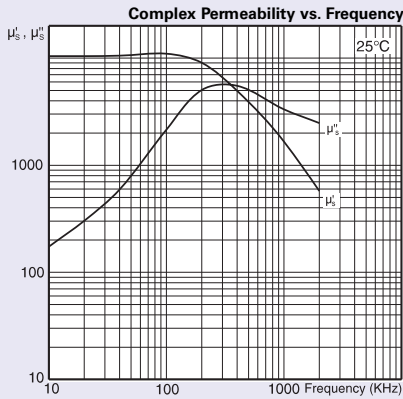
Frequency range: Depends on application

Typical Applications: Broadband and Pulse Transformers, Balanced (common-mode) chokes and inductors for filters.

Available core shapes: EP, Pot, RM, Ring Cores.

Material Specification

Parameter	Symbol	Standard Conditions of test	Unit	F39
Initial Permeability (nominal)	-	B<0.1mT 10kHz 25°C	-	10 000 ±30%
Saturation Flux Density (typical)	B _{sat}	H=796 A/m = 10 Oe 25°C	mT	380
Remanent Flux Density (typical)	B _r	H→ 0 (from near Saturation) 10kHz 25°C	mT	200
Coercivity (typical)	H _c	B→ 0 (from near Saturation) 10kHz 25°C	A/m	16
Loss Factor (maximum)	$\frac{\tan \delta_{(f+g)}}{\mu_i}$	B<0.10mT 10kHz 25°C		10 ⁻⁶ -
Curie Temperature (minimum)	Θ _C	B<0.10mT 10kHz	°C	125
Temperature Factor	$\frac{\Delta\mu}{\mu_i^2 \cdot \Delta T}$	+25°C to +55°C B<0.10mT 10kHz	°C	-
Resistivity (typical)	ρ	1 V/cm 25°C	ohm-cm	100



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