

F48 Material Data

Parameter	Symbol	Standard Conditions of Test	Unit	F48
Initial Permeability (nominal)	μ_i	f=25kHz B<0.1mT 25°C	-	2300 +/-20%
Saturation Flux Density (typical)	B_{sat}	H=1200A/m=15 Oe 25°C 100°C	mT	480 380
Amplitude Permeability (minimum)	μ_a	400mT 25°C 320mT 100°C	-	2500 2000
Remanent Flux Density (typical)	B_r	H→0 (from near saturation) 10kHz 25°C	mT	150
Coercivity (typical)	H_c	B→0 (from near saturation) 10kHz 25°C	A/m	20
Curie Temperature (minimum)	θ_c	B<0.1mT 10kHz	°C	220
Resistivity (typical)	ρ	1V/cm 25°C	ohm-cm	100
Total Power Loss Density (maximum)	P_v	100kHz 100mT 100°C 100kHz 200mT 100°C	mW.cm ⁻³	70 380

Material Type: Manganese Zinc Ferrite

Properties: Low Power Loss
Losses minimised 80-100C
High Saturation
Improved Permeability

Frequency Range: Up to 500kHz depending
on flux density.

Application: SMPS

Core Types: Planar, E, U, ETD, RM,
Ring

