

# F49

Material Type : Manganese-Zinc Ferrite  
 Properties : Moderate Power Loss  
                   Losses minimised 60-80C  
                   High Saturation  
                   High Currie Temperature  
 Applications : Chokes  
 Core Types : Planar, E, U, ETD, RM, Ring

## Material Specification

Parameter	Symbol	Standard Conditions of Test	Unit	F49
Initial Permeability (nominal)	$\mu_i$	f=25kHz B<0.1mT 25°C	-	1000 +/-30%
Saturation Flux Density (typical)	$B_{sat}$	H=1200A/m=15 Oe 25°C 100°C	mT	580 460
Amplitude Permeability (minimum)	$\mu_a$	400mT 25°C 320mT 100°C	-	1800 2500
Remanent Flux Density (typical)	$B_r$	H→ 0 (from near saturation) 10kHz 25°C	mT	159
Coercivity (typical)	$H_c$	B→ 0 (from near saturation) 10kHz 25°C	A/m	25
Curie Temperature (minimum)	$\theta_c$	B< 0.1mT 10kHz	°C	290
Resistivity (typical)	$\rho$	1V/cm 25°C	ohm-cm	100
Total Power Loss Density (maximum)	$P_v$	25kHz 200mT 60°C 100kHz 200mT 60°C	mW.cm <sup>-3</sup>	200 1100

