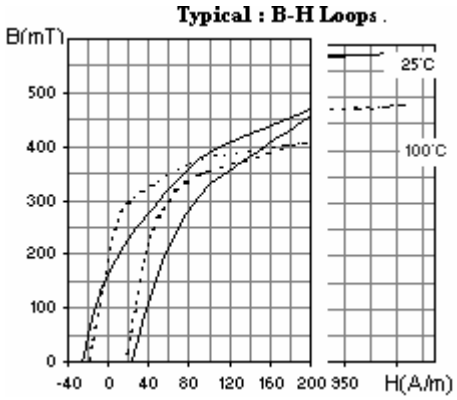
TT electronics
Magnetics Division

F49 Material Data

Parameter	Symbol	Standard Conditions of Test	Unit	F49
Initial Permeability *(nominal)*	μ_i	f=10kHz B<0.1mT 25°C	-	1000 +/-30%
Amplitude Permeability *(minimum)*	μ_a	400mT 25°C 320mT 100°C	-	1800 2500
Saturation Flux Density *(typical)*	B_{sat}	H=1200A/m=15 Oe 25°C 100°C 140°C	mT	580 480 440
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	30
Curie Temperature *(minimum)*	θ_c	B< 0.1mT 10kHz	°C	290
Resistivity *(typical)*	ρ	1V/cm 25°C	ohm-cm	100
Total Power Loss Density *(maximum)*	P_v	25kHz 200mT 60°C 100kHz 200mT 60°C	$mW.cm^{-3}$	200 1100
Density			g/cm^3	4.9

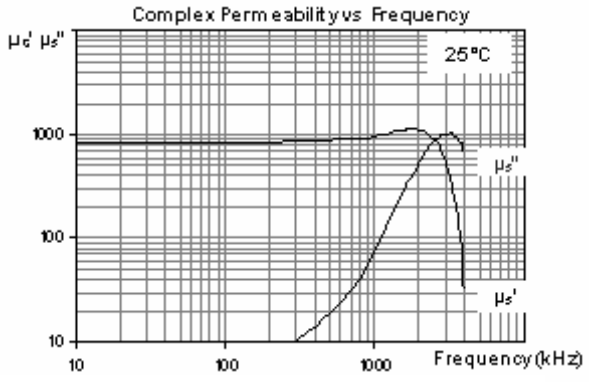
A high saturation material for output chokes, high DC bias and saturation limited applications

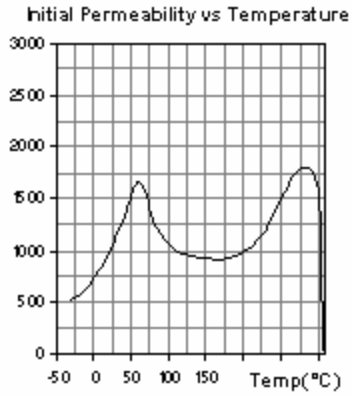


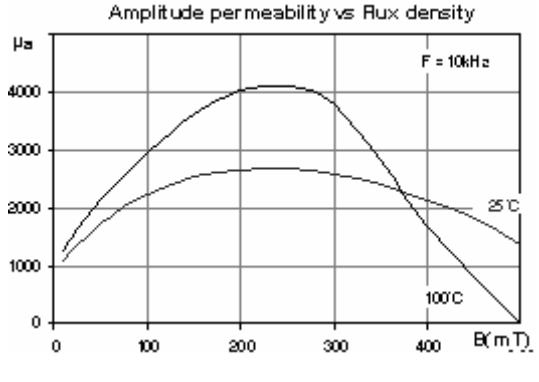
Material Type: Manganese Zinc Ferrite

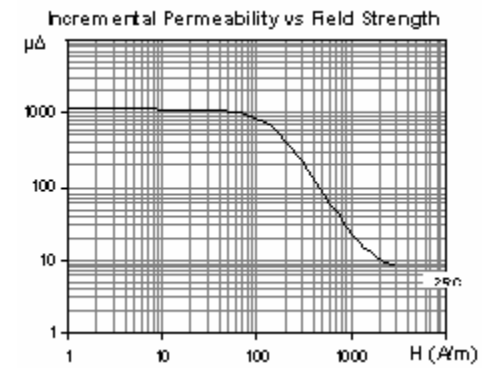
Properties:
Moderate Power Loss
Losses minimised 60-80C
High Saturation
High Currie temperature

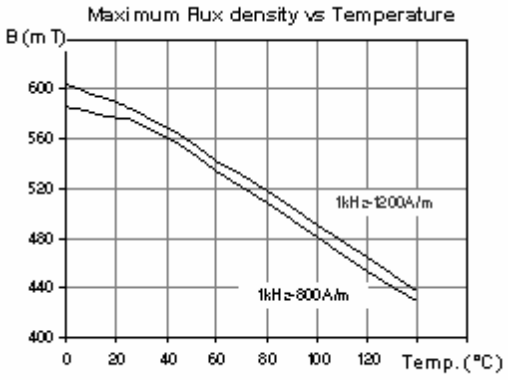
Core Types: Planar, E, U, ETD, RM, Ring

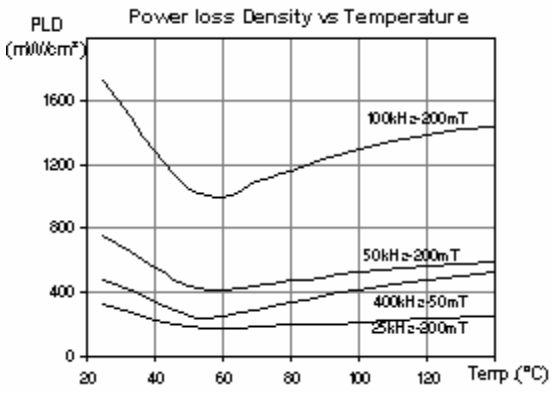












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