

Material Properties

Material	CF 139		
Base Material	MnZn		
Property	Symbol	Unit	
Initial Permeability (T = 25 °C)	μ_i		2100±20%
Flux density H = 1000 A/m, f = 10 kHz)	B_s (25 °C) B_s (100 °C)	mT mT	490 390
Residual Flux Density	B_r (25 °C)	mT	180
Coercivity	H_c (25 °C)	A/m	21
Power loss density 100 kHz, 100 mT, 100 °C 100 kHz, 200 mT, 100 °C 300 kHz, 100 mT, 100 °C 500 kHz, 50 mT, 100 °C	P_v	kW/m ³ kW/m ³ kW/m ³ kW/m ³	< 60 <380 <390 <215
Curie Temperature	T_c	°C	>210 °C
Sec. Max. Permeability	SMP	°C	90 – 110
Resistivity	ρ	Ωm	8
Density	d	Kg/m ³	4800
Core Shapes			RM, P, PM, EP, PTS, POT, PQ, E, EC, ETD EFC, EI, EER, EFF, Toroid

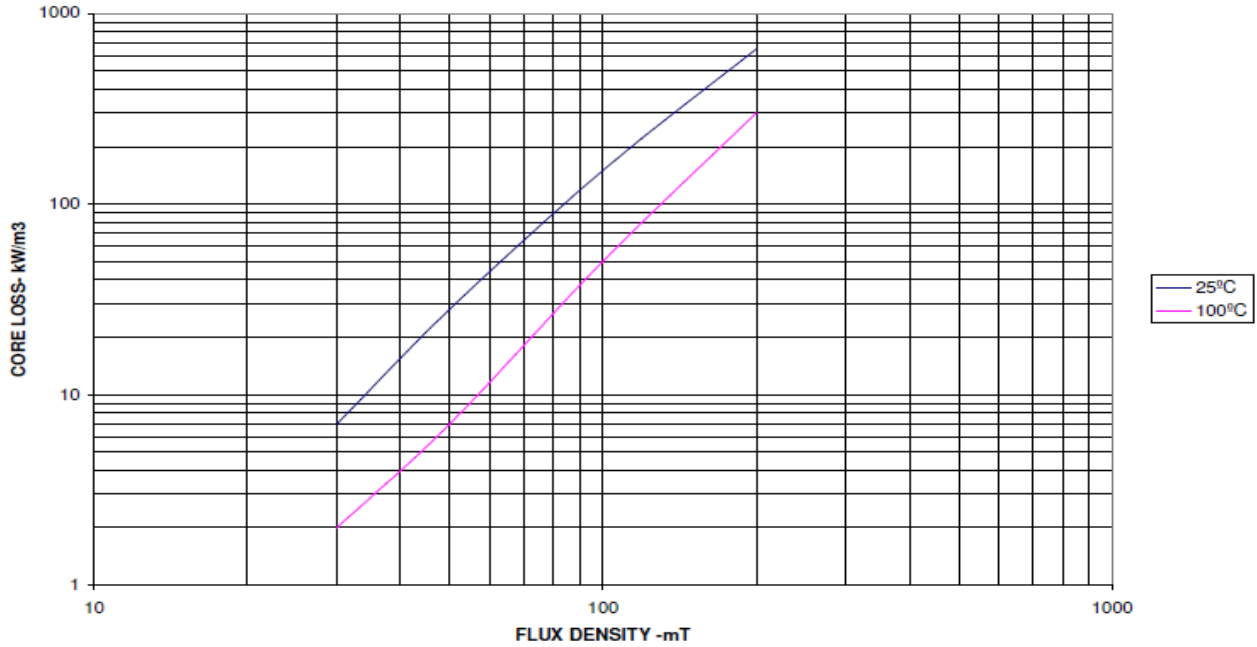


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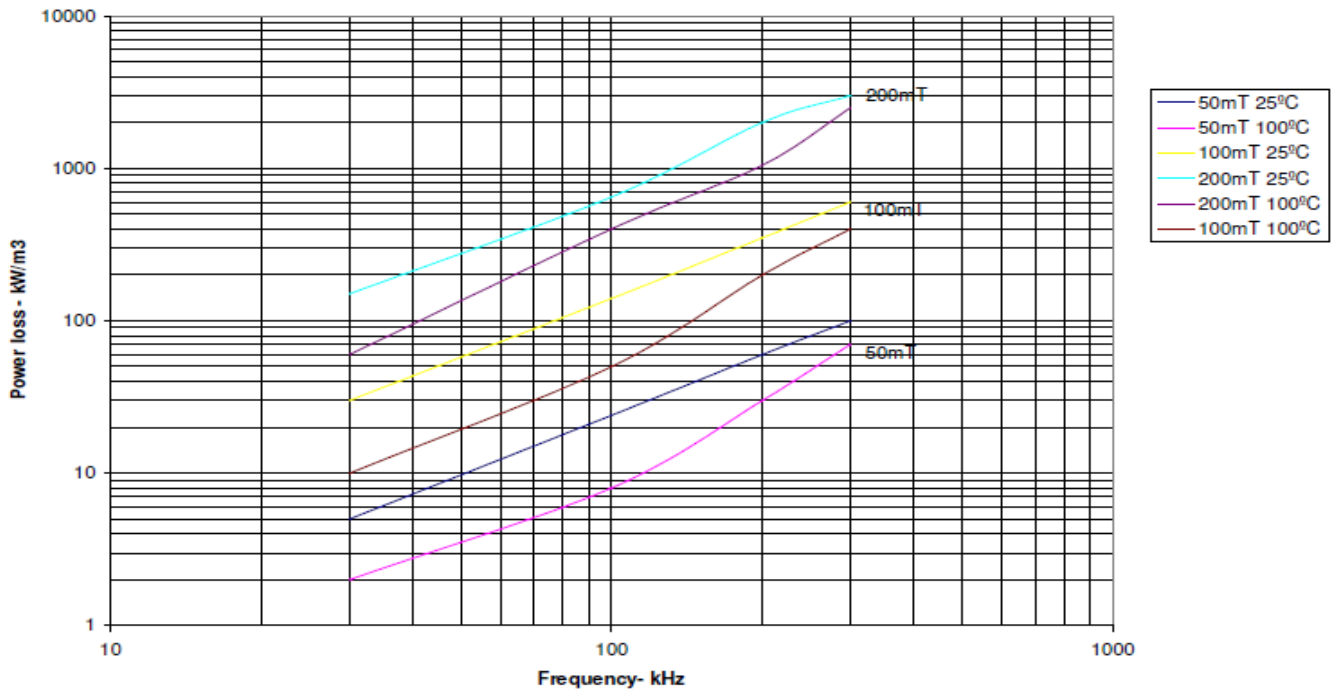
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Core loss versus flux density



Core loss versus frequency

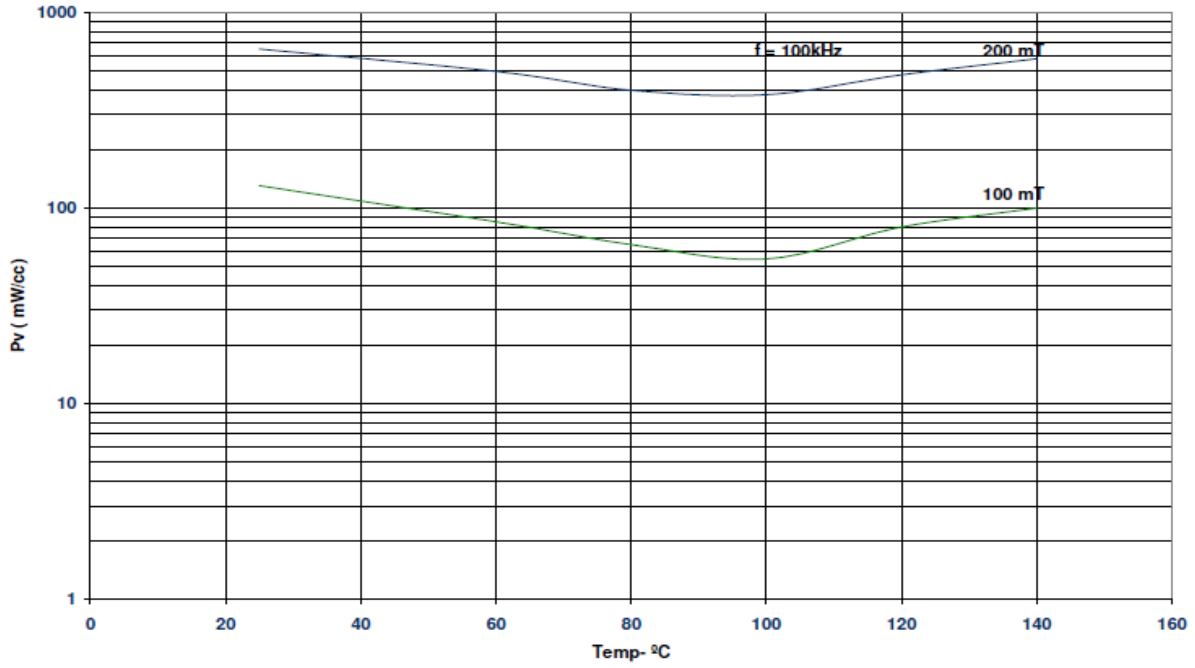


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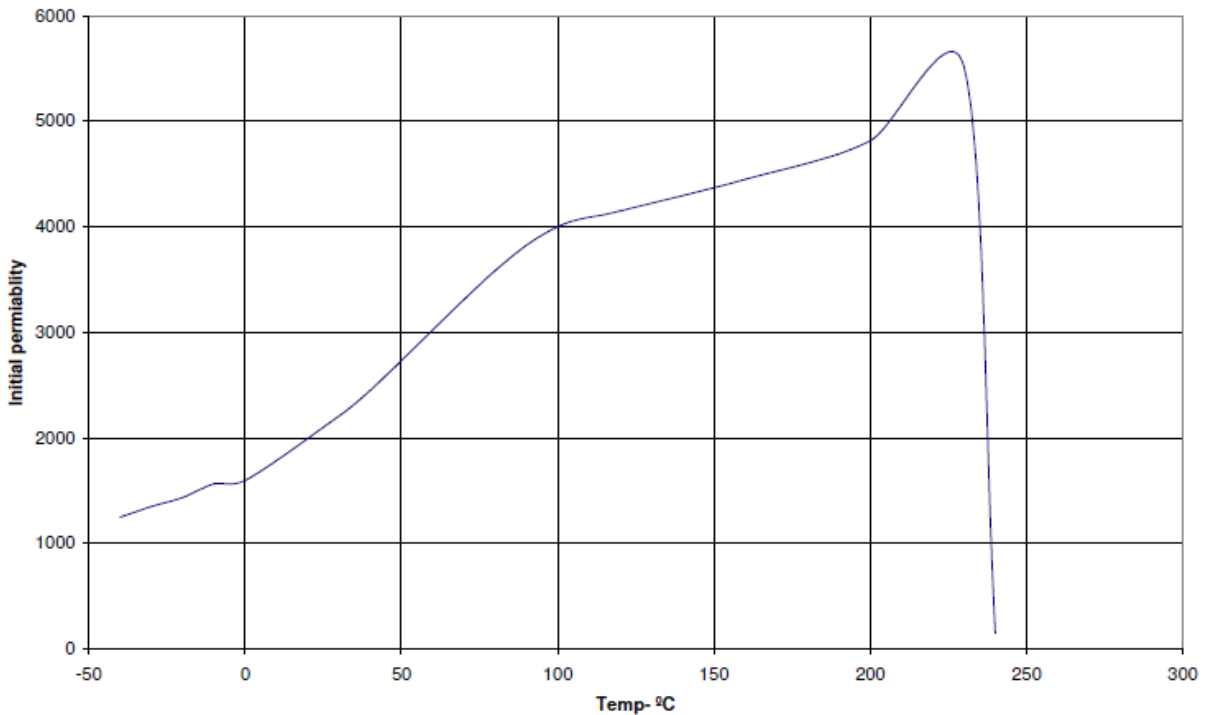
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Core loss versus Temperature (Measured on T2512 Toroids)



Initial Permeability versus Temperature (Measured on T2512 Toroids)

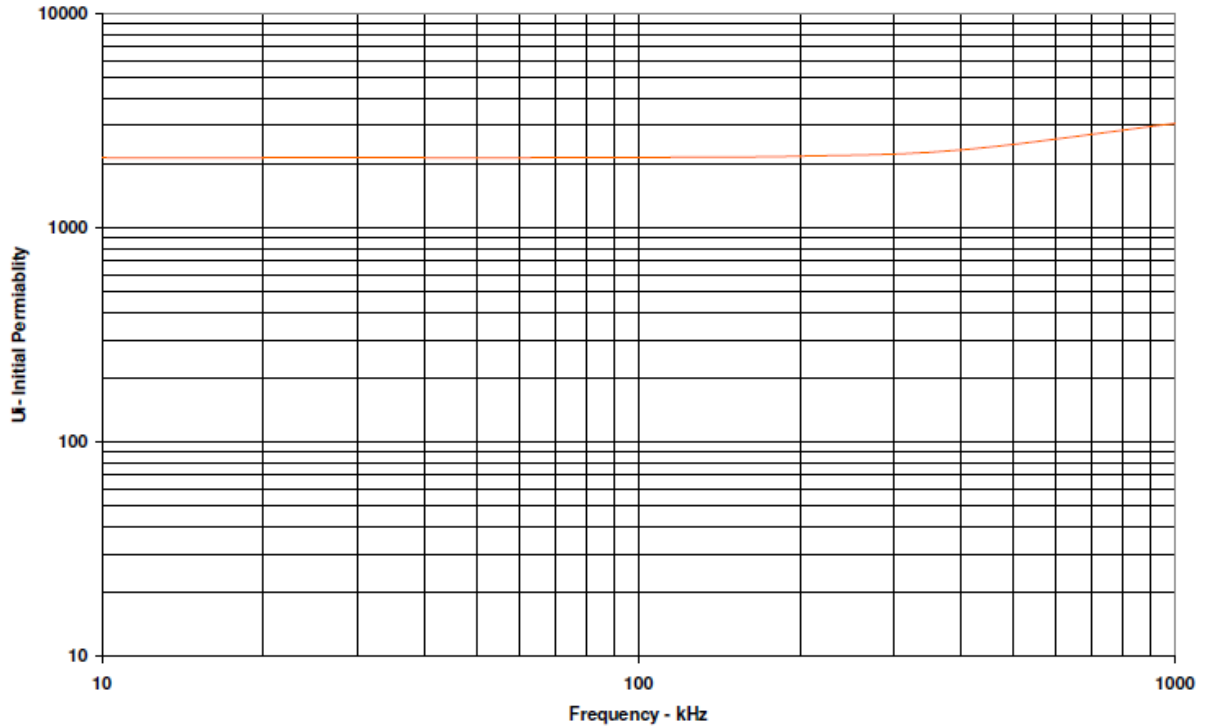


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Initial Permeability versus frequency (Measured on T 2512 Toroids)



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