

MATERIAL DATA SHEET



Material Specification : CF292

Date: 14-JUNE-2017

***Material data specified here have been derived from measurement on toroid core T2512**



Material Specifications

CF292

Application	Power transformers
Material	Mn-Zn

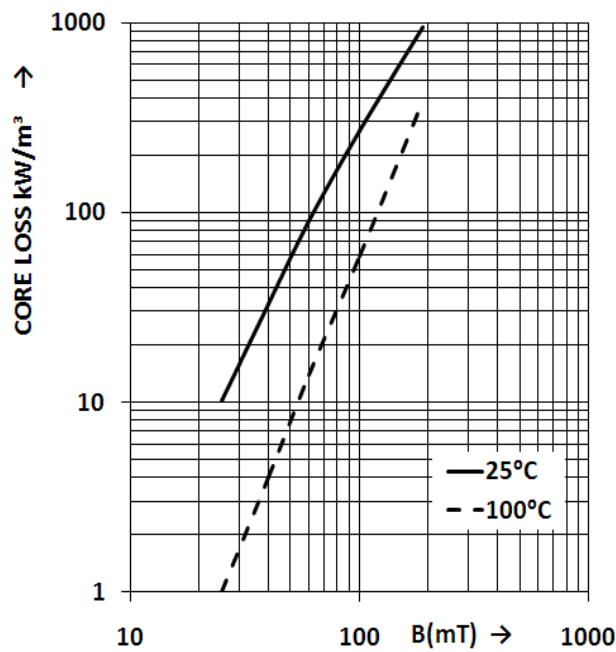
Material Properties	Conditions	Symbol	Value	Unit
Initial Permeability	25°C, 10kHz, $\leq 0.25\text{mT}$	μ_i	1800 $\pm 20\%$	
Flux Density	25°C; 1000A/m	B_s	500	mT
	100°C; 1000A/m	B_s	440	mT
Coercive Field Strength	25°C; 10kHz	H_c	24	A/m
	100°C; 10kHz	H_c	13	A/m
Hysteresis Material Constant	25°C;	η_B	<1.4	10^{-6}mT
Curie Temperature	10kHz; $\leq 0.25\text{mT}$	T_c	>250	°C
Density	25°C	ρ	4.8×10^3	kg/m ³
Resistivity	25°C	ρ_{DC}	8	Ωm
Relative Core Losses	100°C; 100kHz; 100mT		≤ 70	kW/m ³
	100°C; 100kHz; 200mT		≤ 410	kW/m ³

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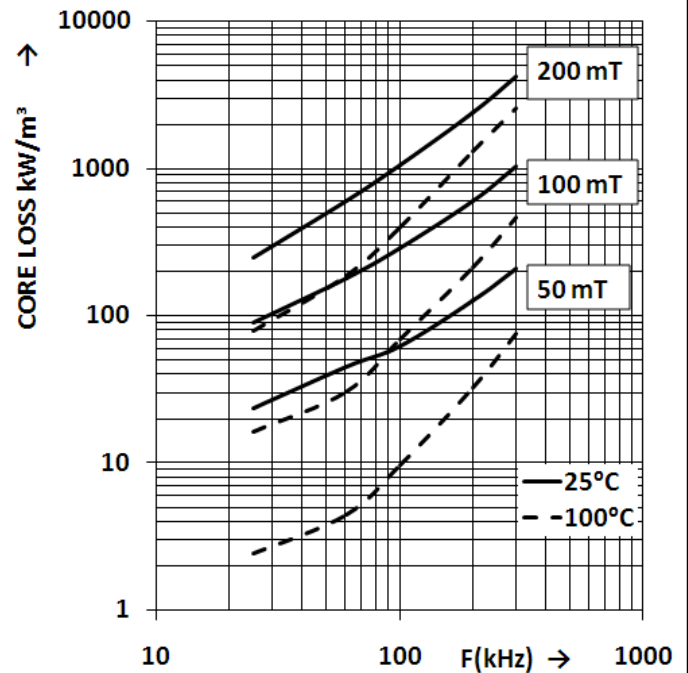
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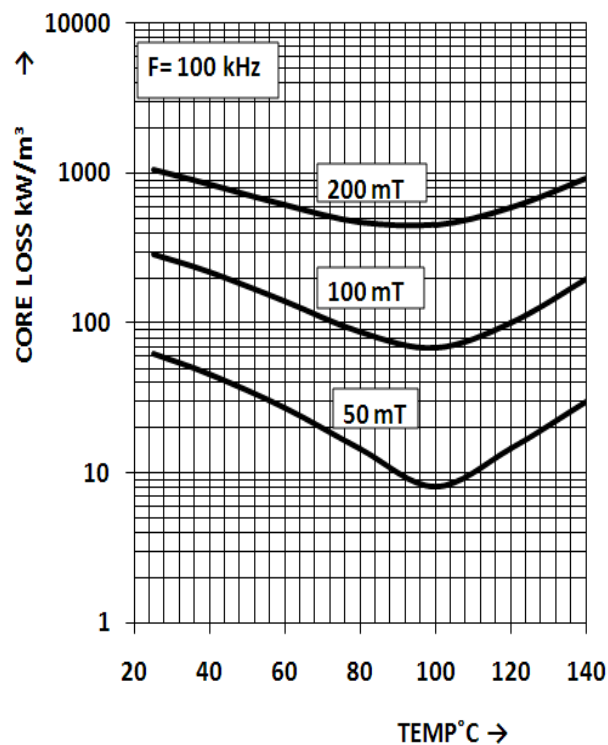
CORE LOSS Vs FLUX DENSITY



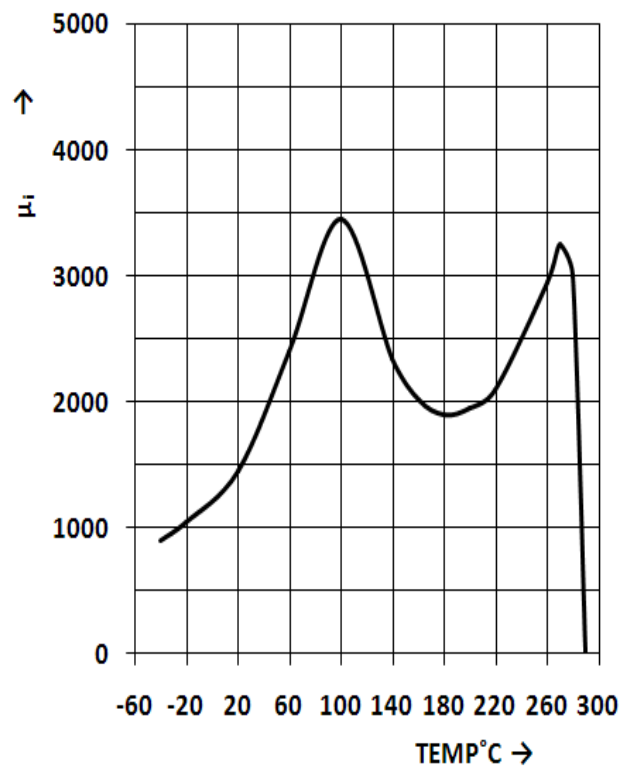
CORE LOSS Vs FREQUENCY



CORE LOSS Vs TEMPERATURE



μ_i Vs Temp

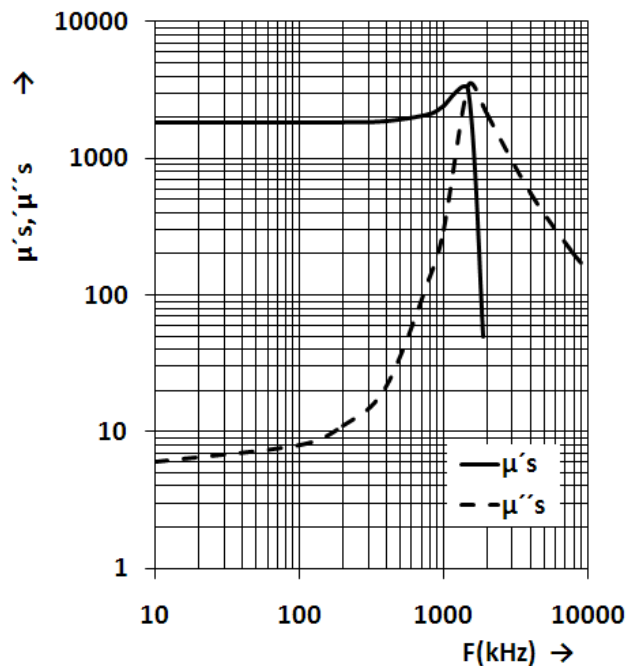


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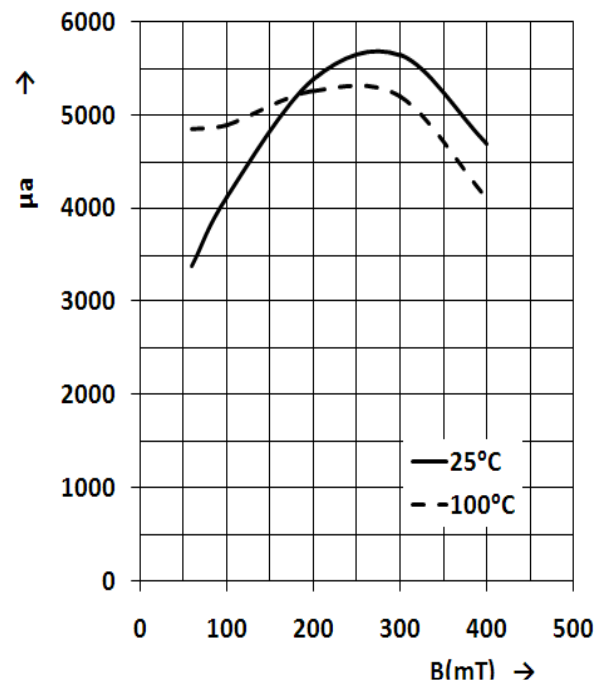
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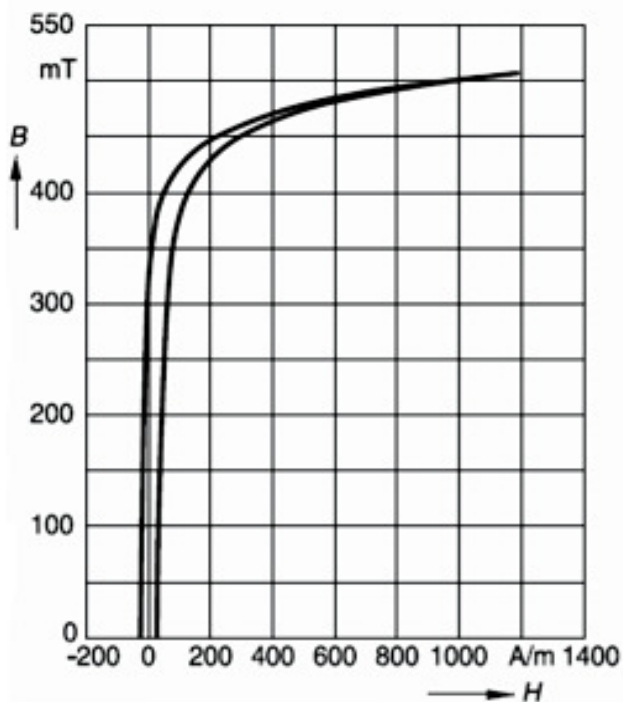
COMPLEX PERMEABILITY Vs FREQUENCY



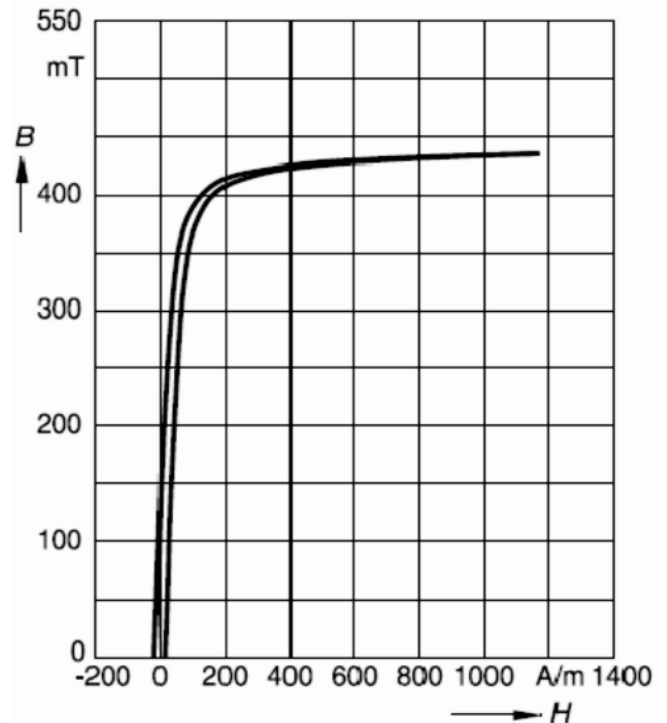
AMPLITUDE PERMEABILITY Vs FLUX DENSITY



CF292 B-H CURVE 25°C



CF292 B-H CURVE 100°C



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