



CF199 MATERIAL SPECIFICATION SHEET

Material	CF 199		
Base Material	Mn-Zn		
Property	Symbol	Unit	Values
Initial Permeability (T = 25 °C)	μ_i		9000 ± 20%
Flux density (H = 1000 A/m, f = 10 kHz)	B_s (25 °C)	mT	400
	B_s (100 °C)	mT	260
Residual Flux Density	B_r (25 °C)	mT	150
Coercive field strength (f = 10 KHz)	H_c (25 °C)	A/m	8
	H_c (100 °C)	A/m	7
Relative loss factor (T = 25 °C)	$\tan \delta / \mu_i * 10^{-6}$	10 kHz	≤ 20
		100 kHz	-
Curie Temperature	T_c	°C	≥ 115
Hysteresis Mat. Constant	η_B	10 ⁻⁶ /mT	≤ 0.3
Resistivity	ρ	Ωm	0.1
Density	d	Kg/m ³	4800
Core Shapes			Toroid, RM, ET, UT, P

*Material data specified here have been derived from measurements on Toroid core T2512.



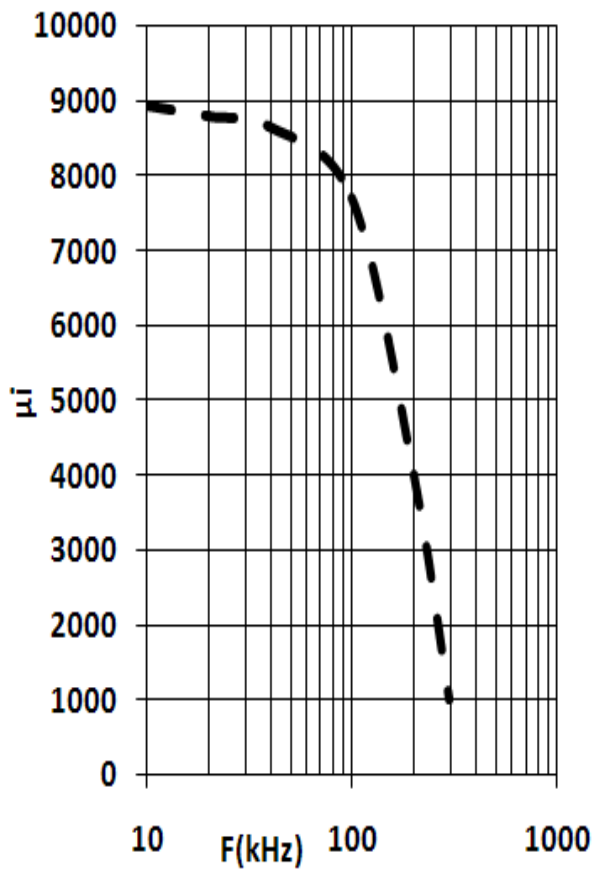
CF199 MATERIAL SPECIFICATION SHEET

MATERIAL CHARACTERISTICS

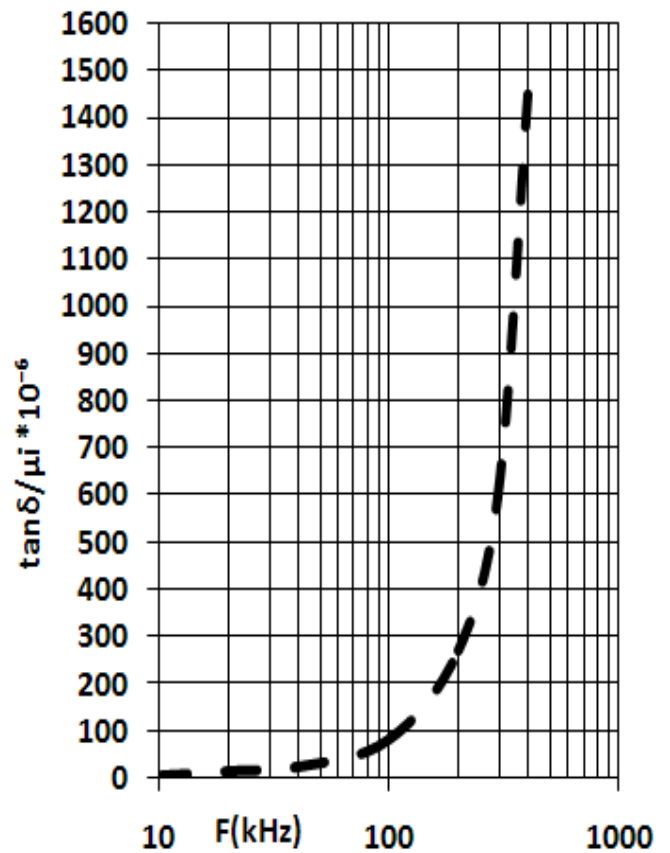
INITIAL PERMEABILITY VS FREQUENCY PLOT :

CORE LOSS VS FREQUENCY PLOT :

μ_i Vs frequency



Loss factor Vs frequency



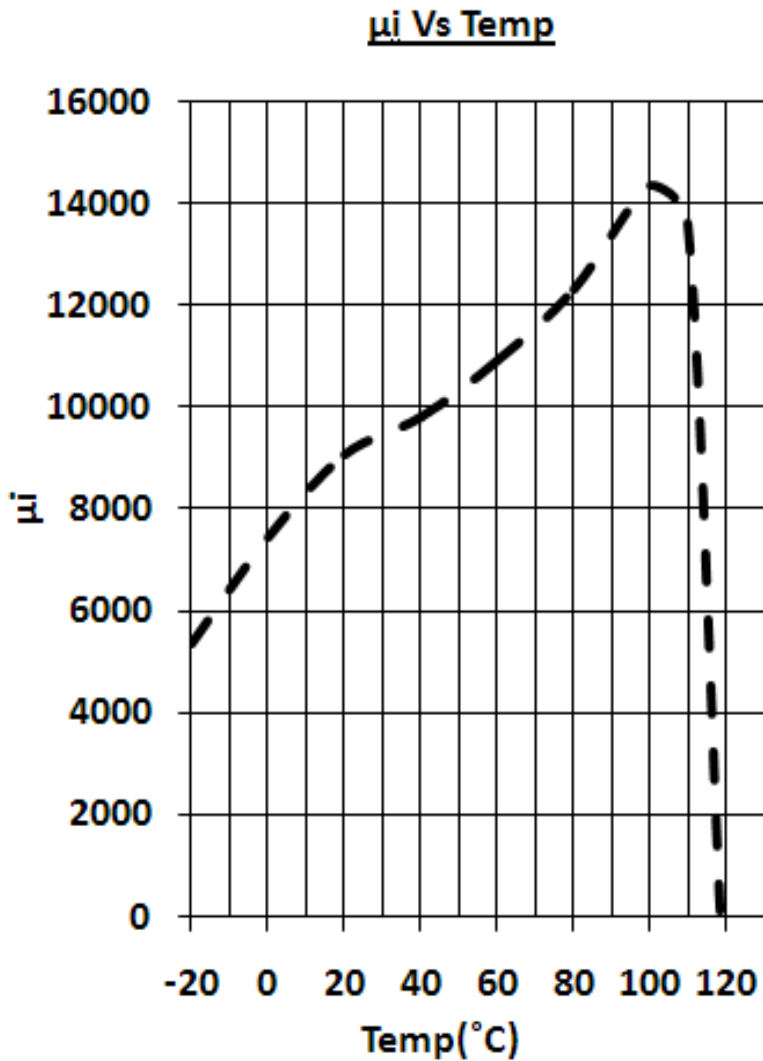
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CF199 MATERIAL SPECIFICATION SHEET

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INITIAL PERMEABILITY Vs TEMPERATURE PLOT :



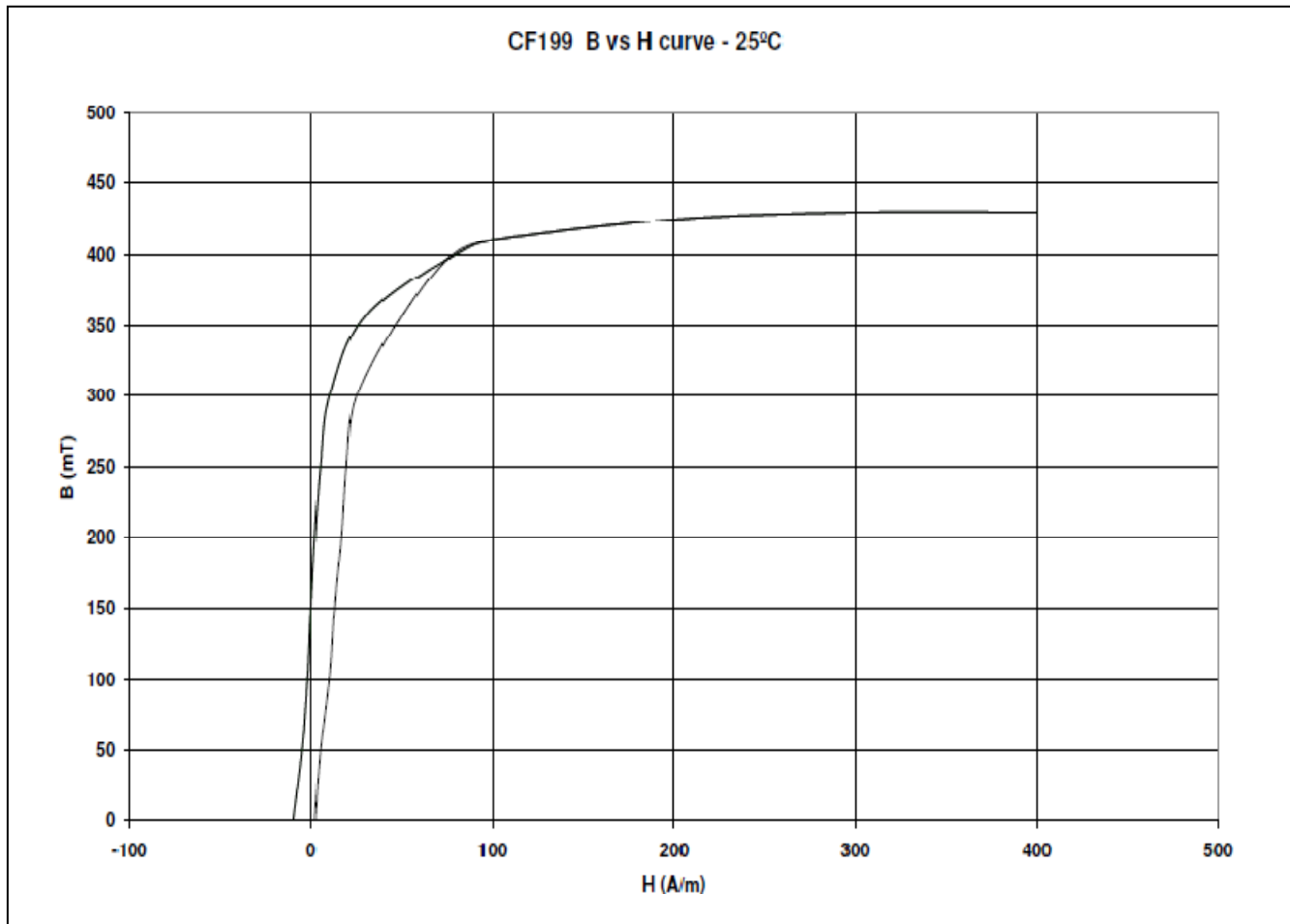
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CF199 MATERIAL SPECIFICATION SHEET

MATERIAL CHARACTERISTICS

B-H LOOP CURVE -25°C:



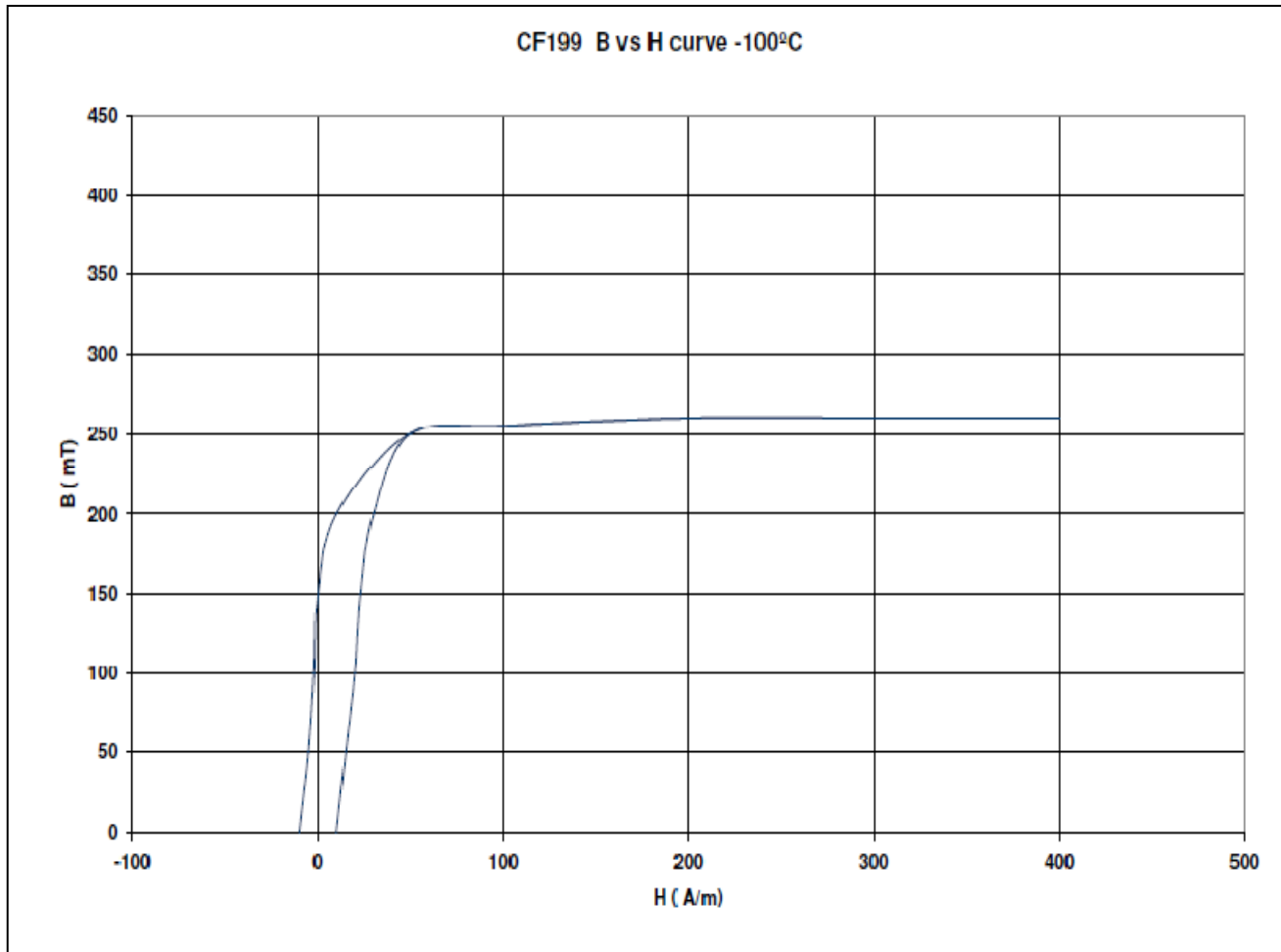
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CF199 MATERIAL SPECIFICATION SHEET

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B-H LOOP CURVE -100°C:



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