



CF199 MATERIAL SPECIFICATION SHEET

Material	CF 199
Base Material	Mn-Zn

Property	Symbol	Unit	Values
Initial Permeability (T = 25 °C)	μ_i		9000 $\pm$ 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	Br (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.

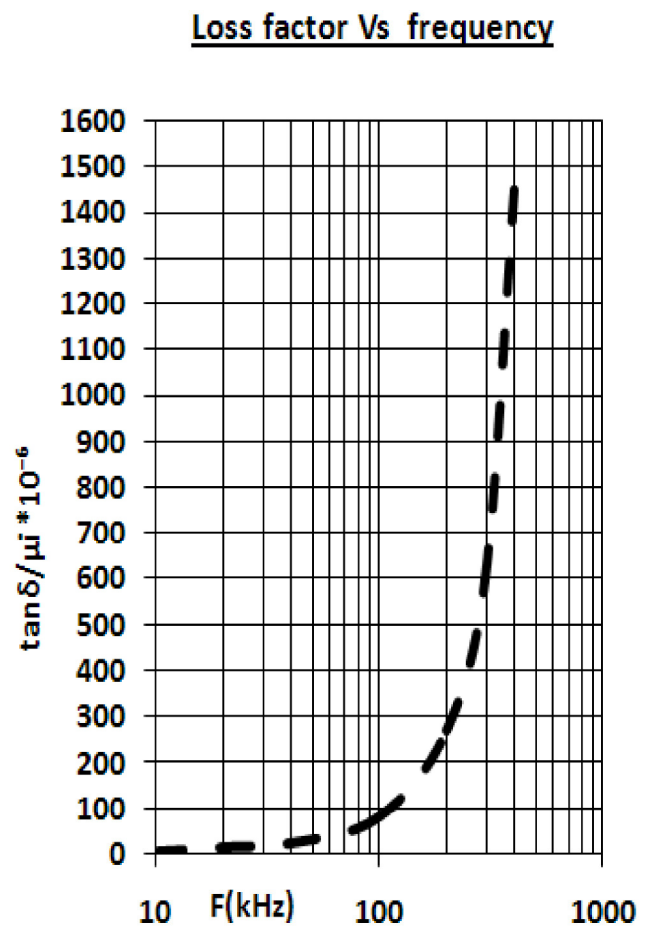
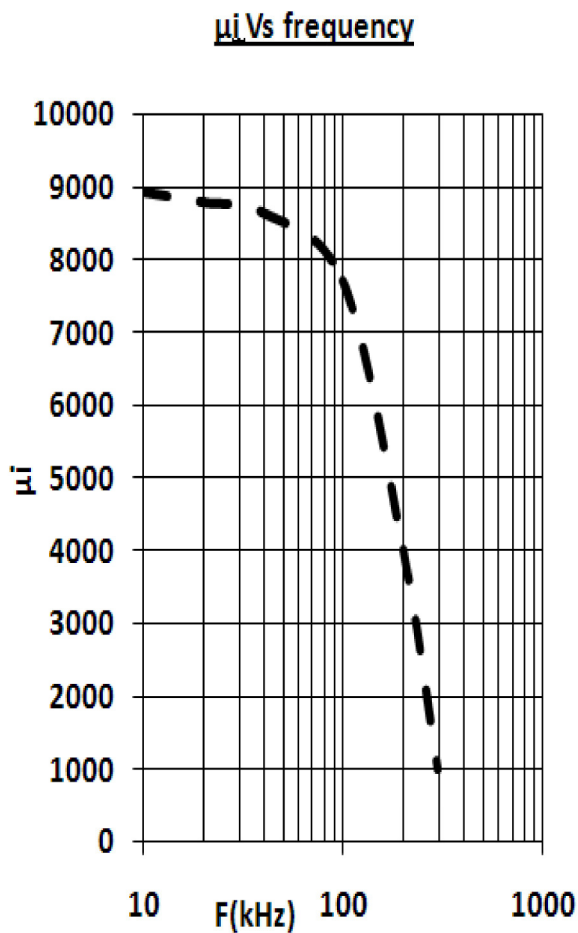


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MATERIAL CHARACTERISTICS

INITIAL PERMEABILITY Vs FREQUENCY PLOT :

CORE LOSS Vs FREQUENCY PLOT :



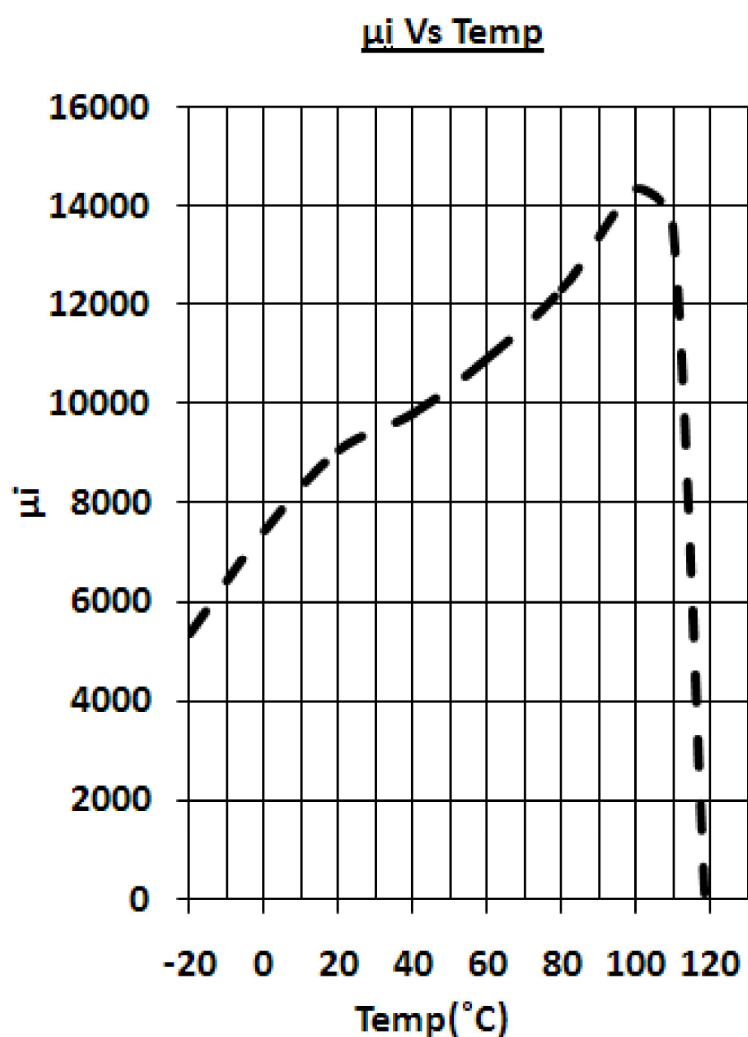
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MATERIAL CHARACTERISTICS

INITIAL PERMEABILITY Vs TEMPERATURE PLOT :



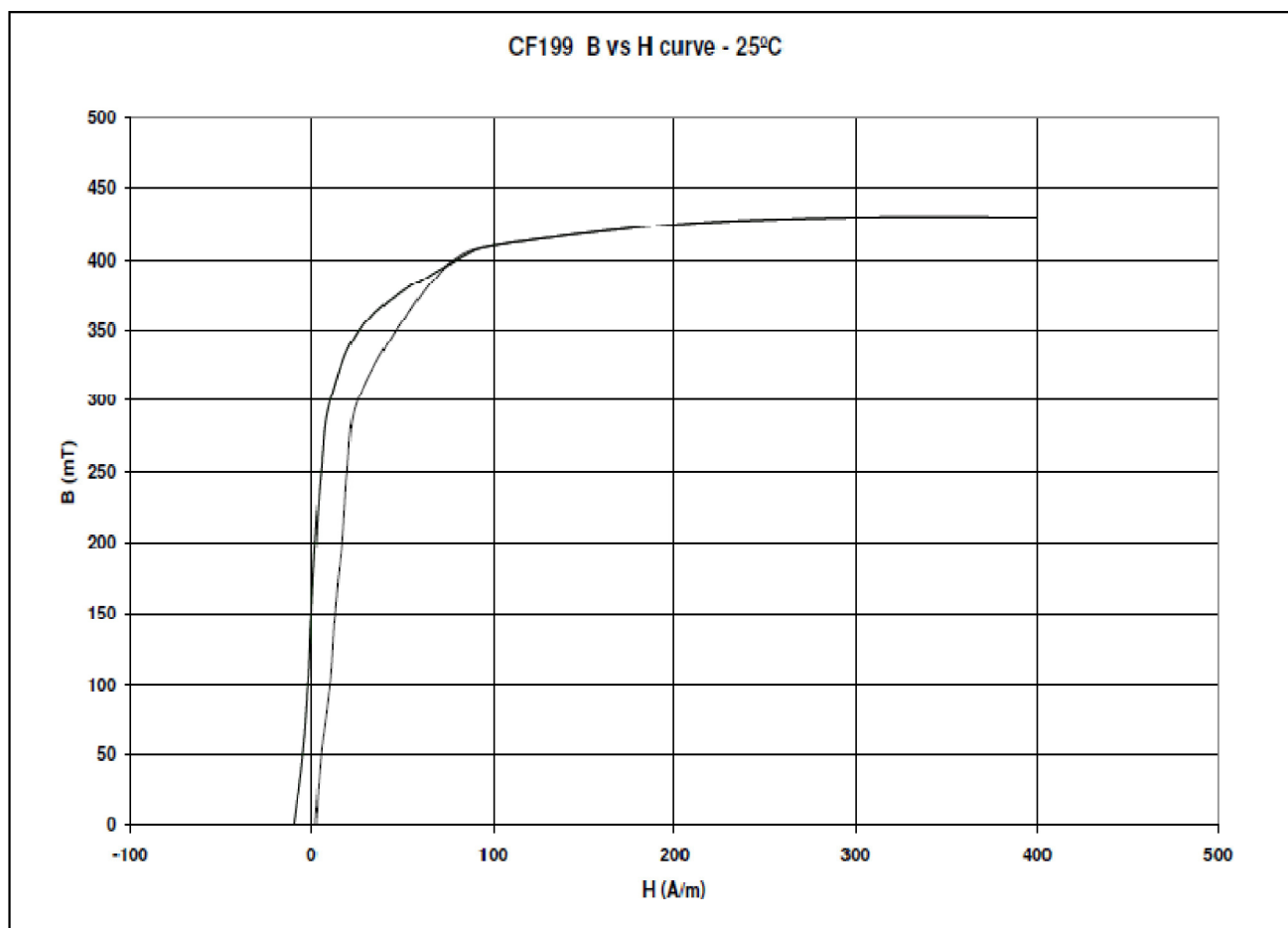
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MATERIAL CHARACTERISTICS

B-H LOOP CURVE -25°C:



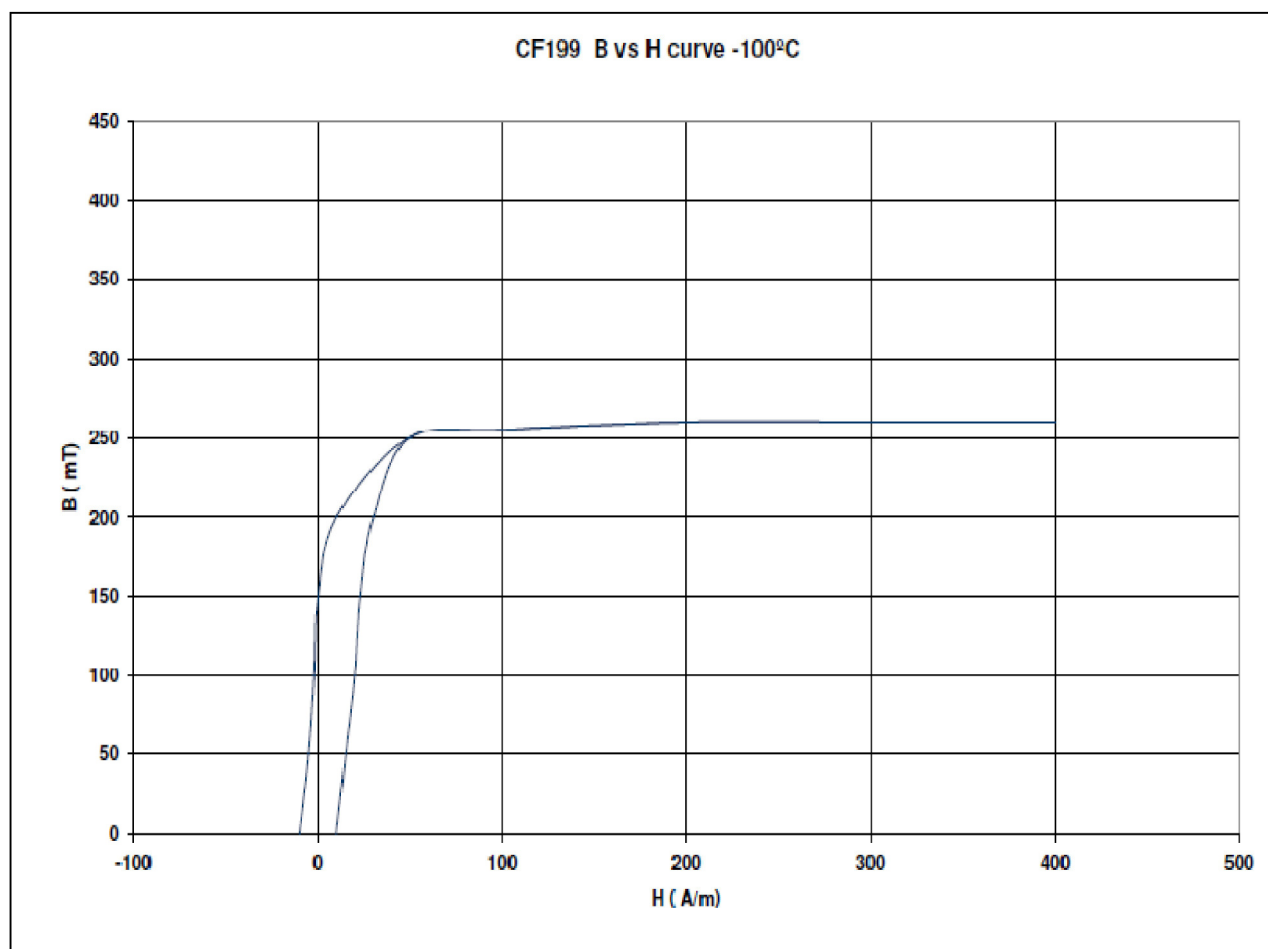
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MATERIAL CHARACTERISTICS

B-H LOOP CURVE -100°C:



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