



COSMO FERRITES LTD.

Material Specifications

CF199A

MATERIAL DATA SHEET



Material Specification : CF199A



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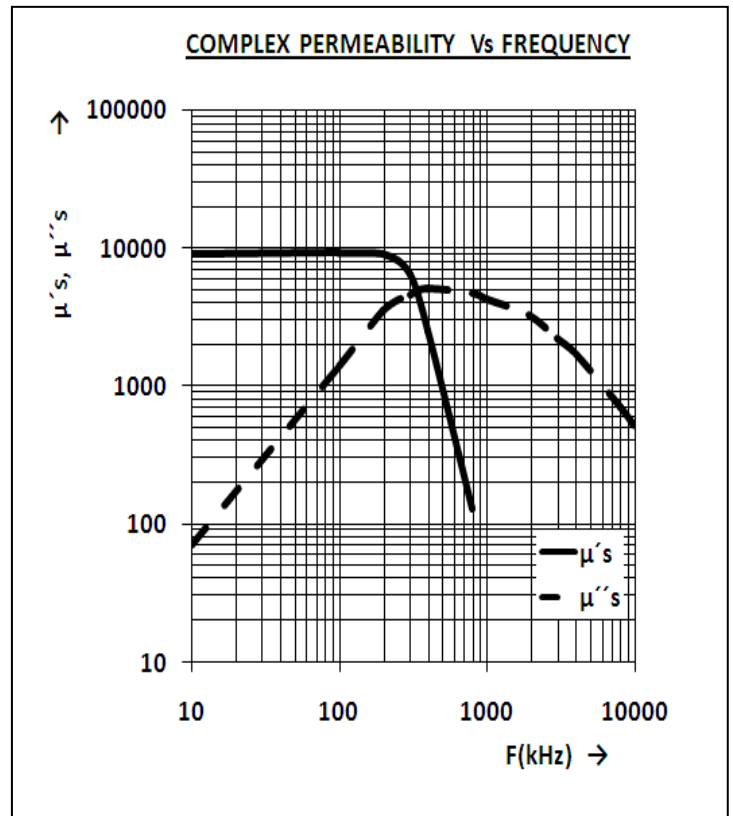
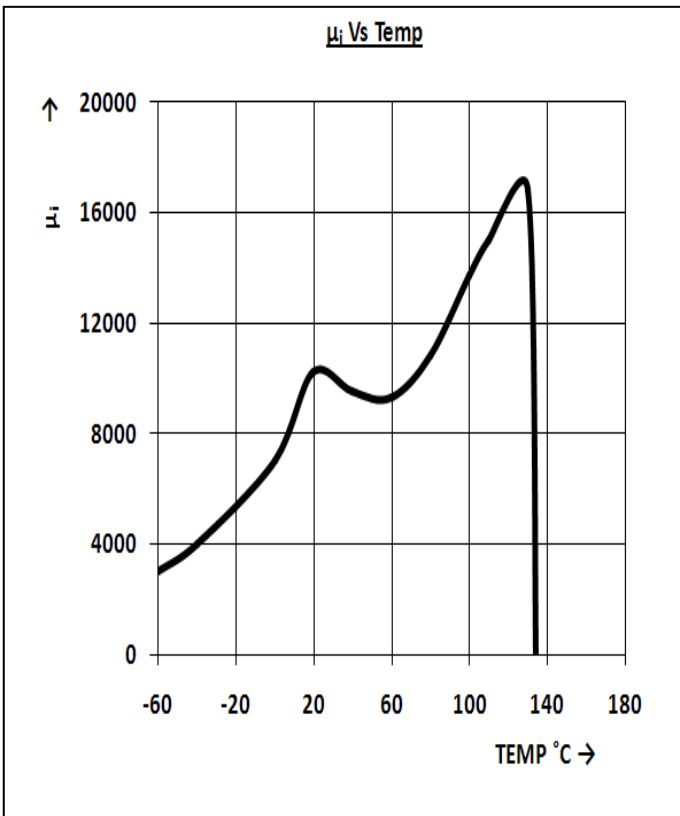
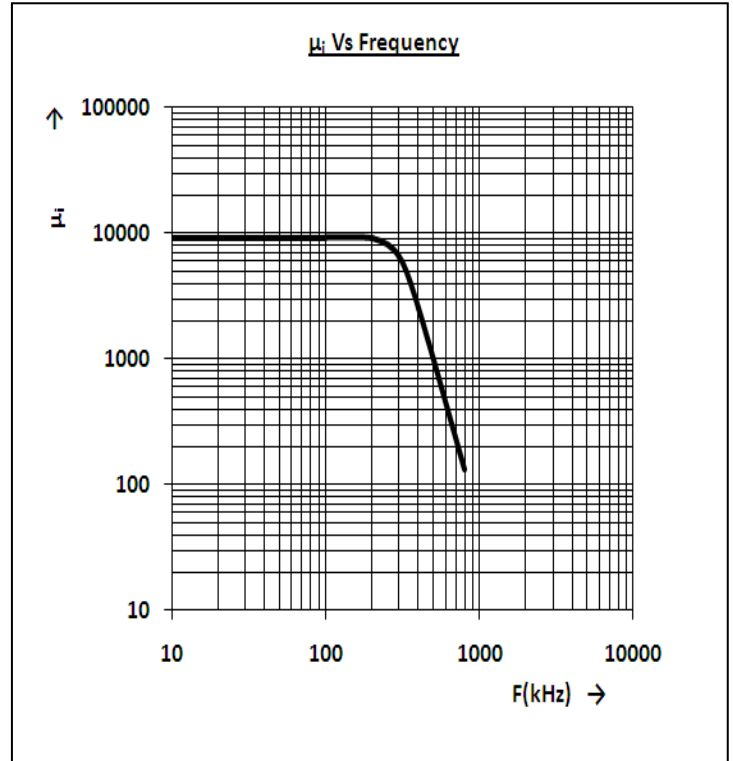
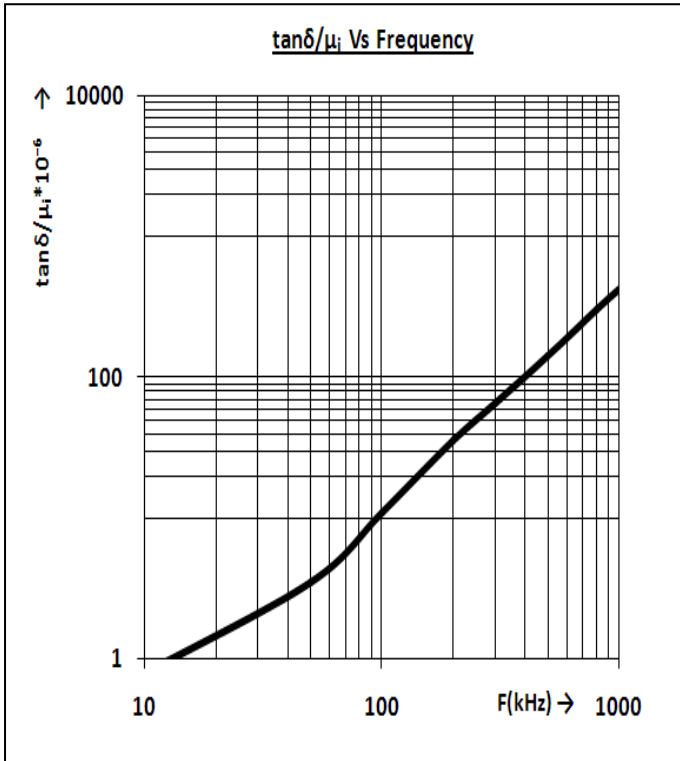


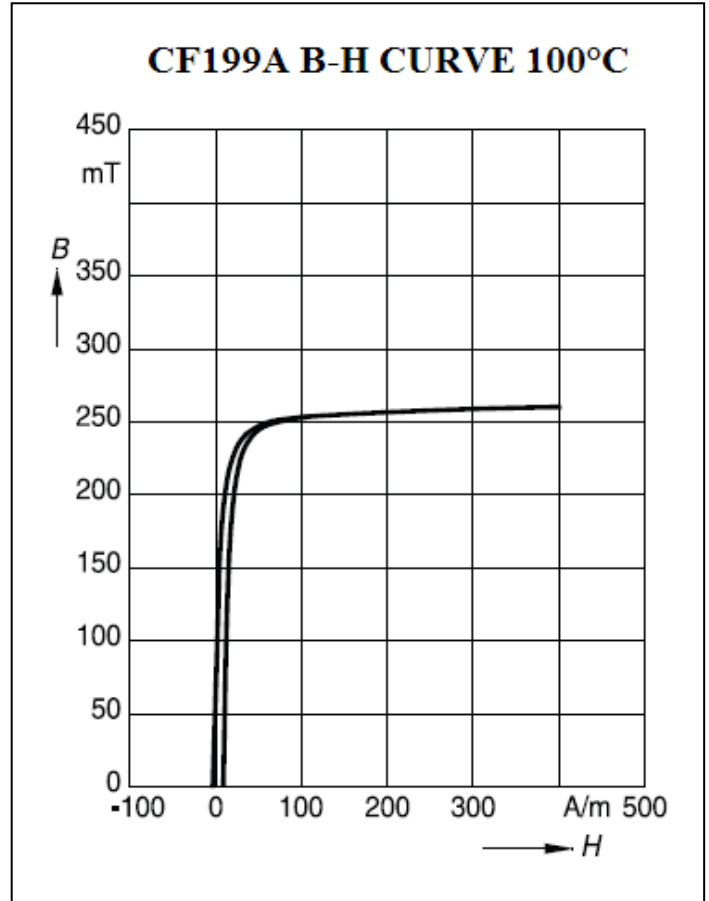
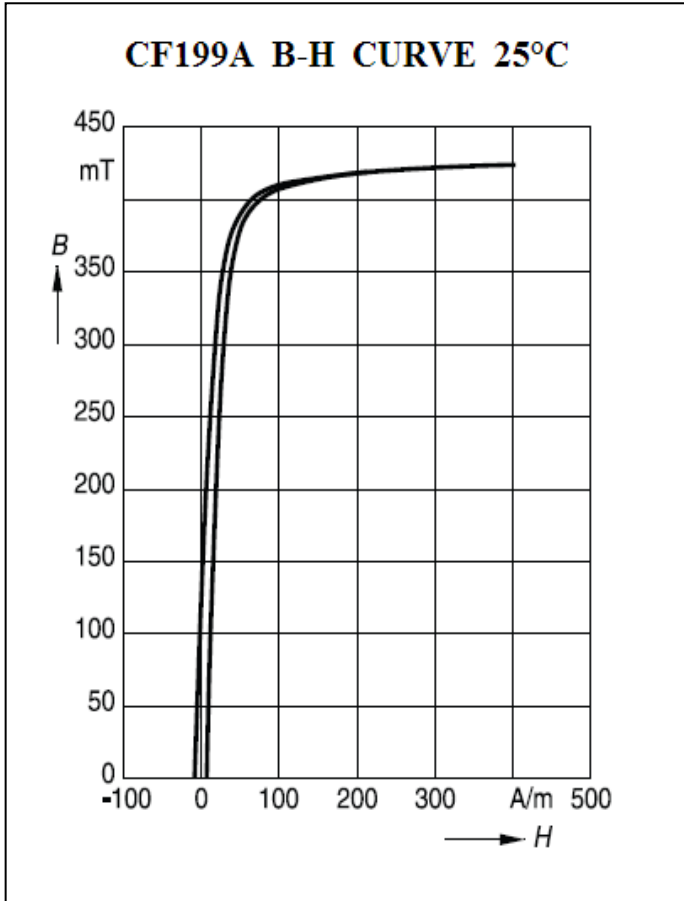
Application	Power transformers
Material	Mn-Zn

Material Properties	Conditions	Symbol	Value	Unit
Initial Permeability	25°C, 10kHz, ≤ 0.25mT	μ_i	9000 ±20%	
Flux Density	25°C; 10kHz; 1200A/m	B_s	430	mT
	100°C; 10kHz; 1200A/m	B_s	260	mT
Coercive Field Strength	25°C; 10kHz	H_c	8	A/m
	100°C; 10kHz	H_c	7	A/m
Hysteresis Material Constant	25°C;	η_B	< 0.3	10 ⁻⁶ mT
Curie Temperature	10kHz; ≤0.25mT	T_c	> 120	°C
Density	25°C	ρ	4.8 × 10 ³	kg/m ³
Resistivity	25°C	ρ_{DC}	0.1	Ωm
Relative Core Loss Factor	25°C; 10 kHz, 0.25mT	$\tan \delta/\mu_i$	≤ 2.0	*10 ⁻⁶
	25°C; 100 kHz, 0.25mT	$\tan \delta/\mu_i$	≤ 20	*10 ⁻⁶

Date: 04 November 2017

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





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