



COSMO FERRITES LTD.

Material Specifications

CF197A

MATERIAL DATA SHEET



Material Specification : CF197A



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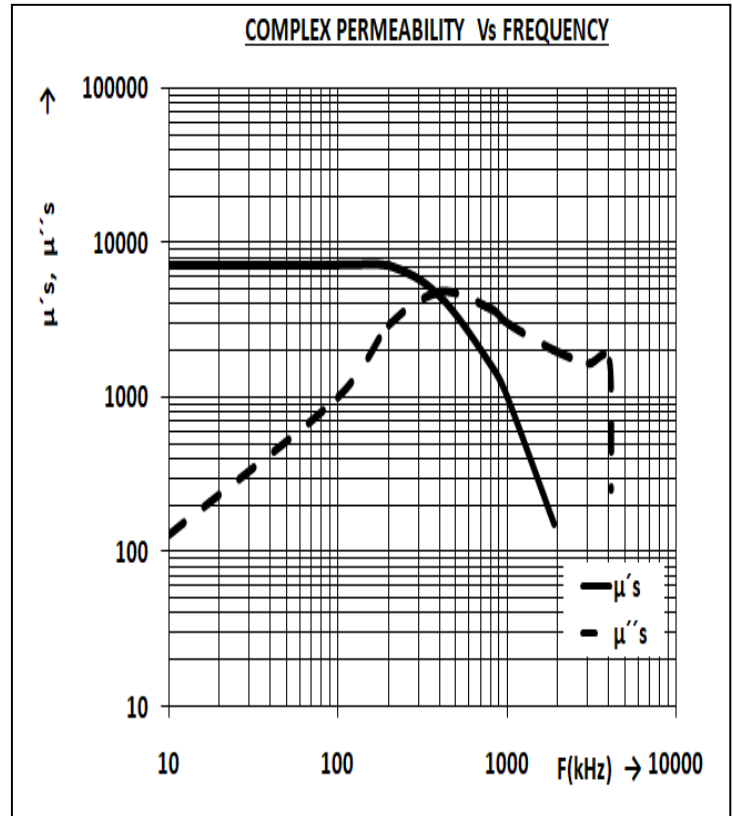
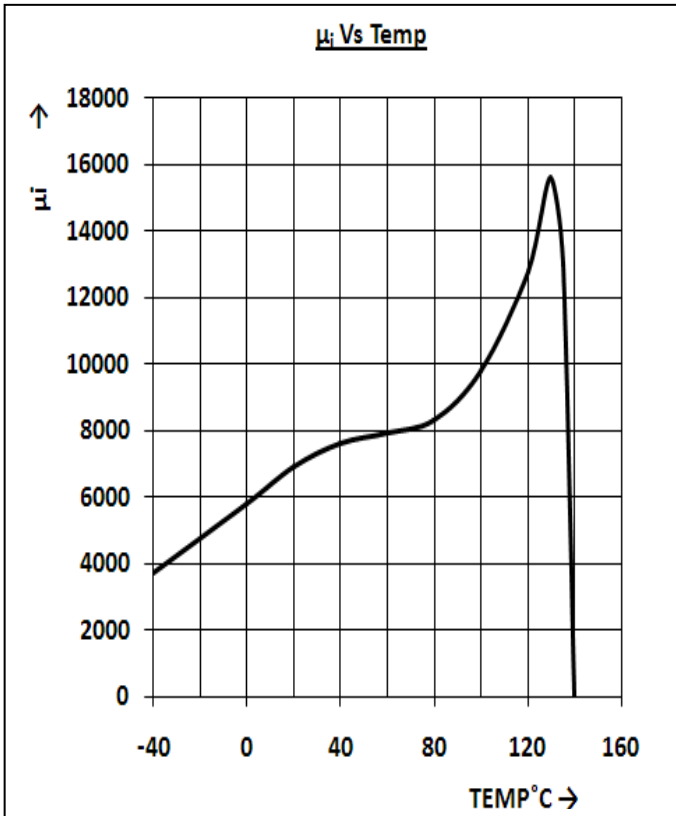
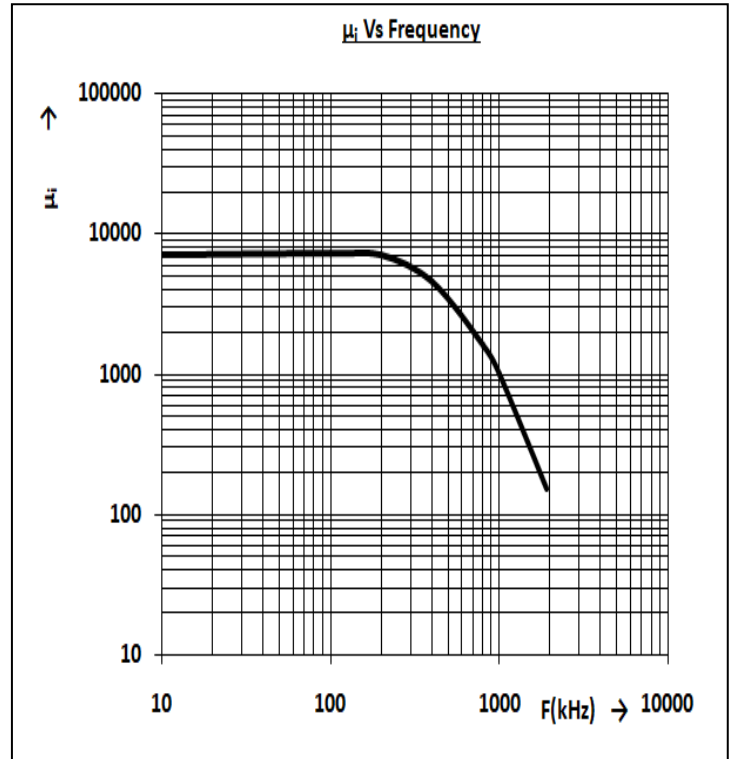
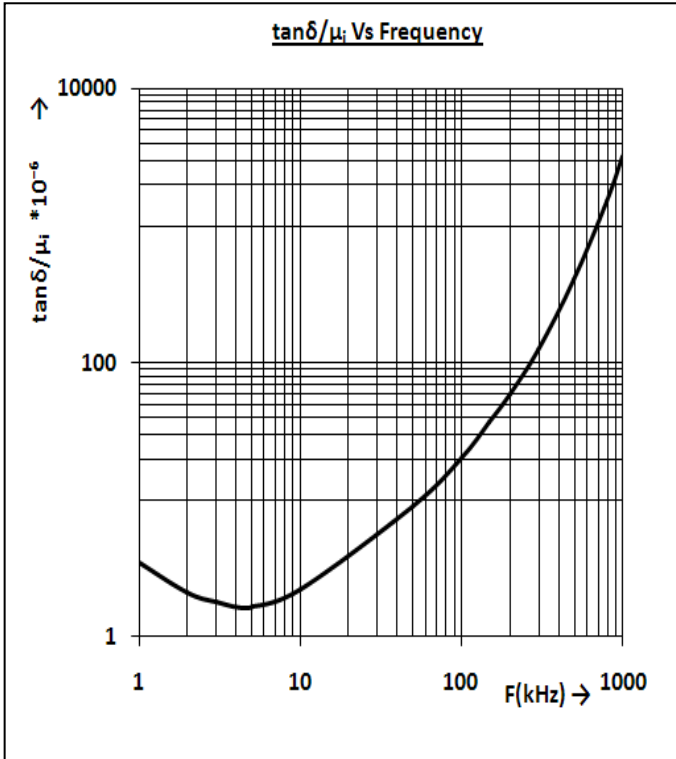


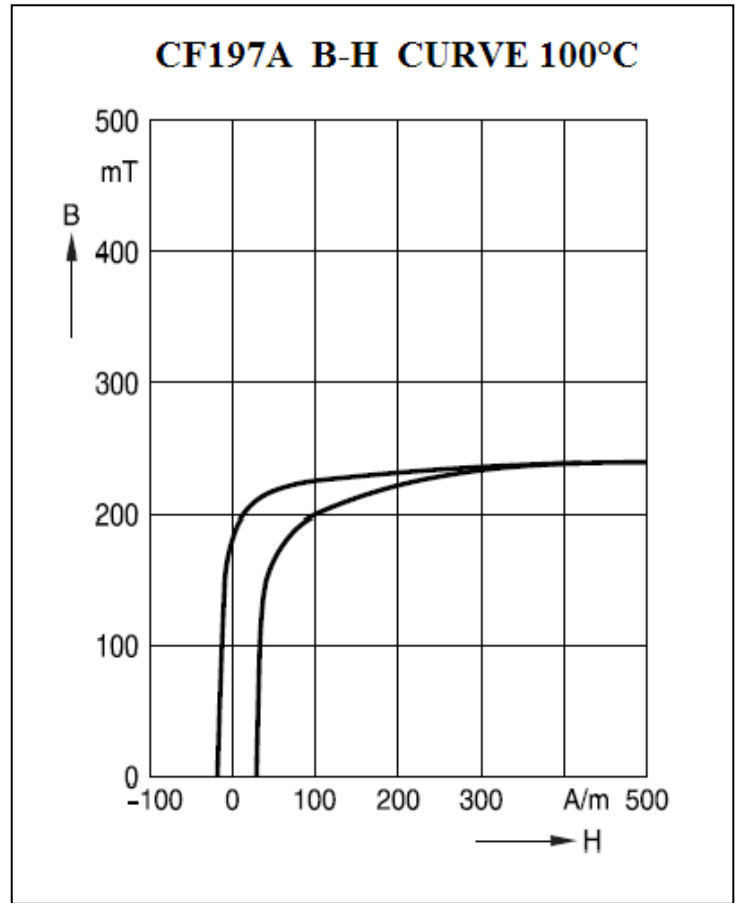
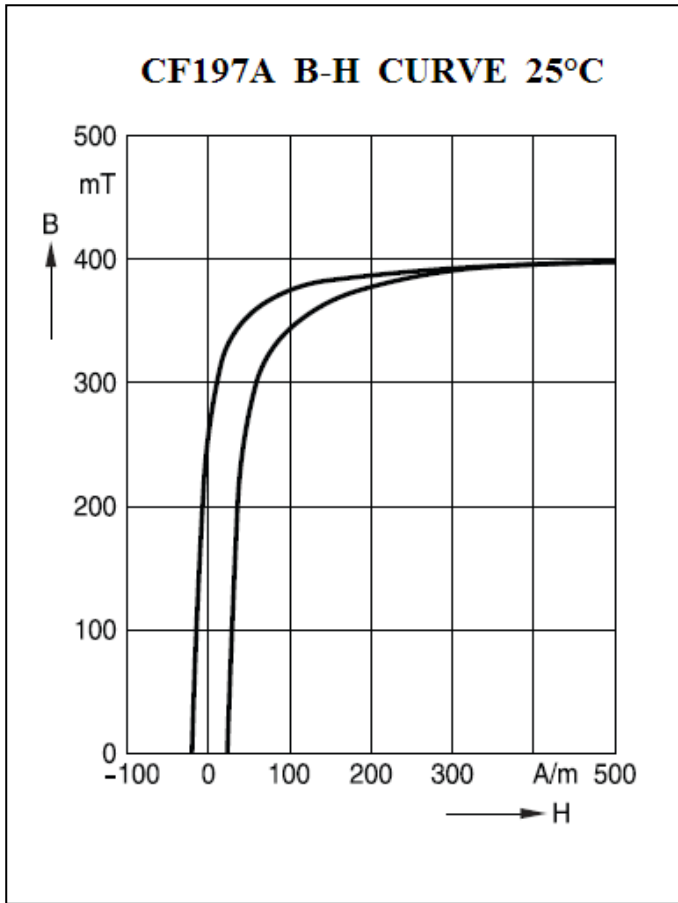
Application	Broadband Transformers
Material	Mn-Zn

Material Properties	Conditions	Symbol	Value	Unit
Initial Permeability	25°C, 10kHz, ≤ 0.25mT	μ_i	7000 ±20%	
Flux Density	25°C; 10kHz; 1200A/m	B_s	400	mT
	100°C; 10kHz; 1200A/m	B_s	240	mT
Coercive Field Strength	25°C; 10kHz	H_c	22	A/m
	100°C; 10kHz	H_c	24	A/m
Hysteresis Material Constant	25°C;	η_B	<1.1	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}	0.2	Ω m
Relative Core Loss Factor	25°C; 50 kHz	$\tan \delta/\mu_i$	≤ 3.0	$*10^{-6}$
	25°C; 100 kHz	$\tan \delta/\mu_i$	≤ 30	$*10^{-6}$

Date: 04 November 2017

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





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