

MATERIAL DATA SHEET



Material Specification : CF191

Date: 30 July 2018

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



Material Specifications

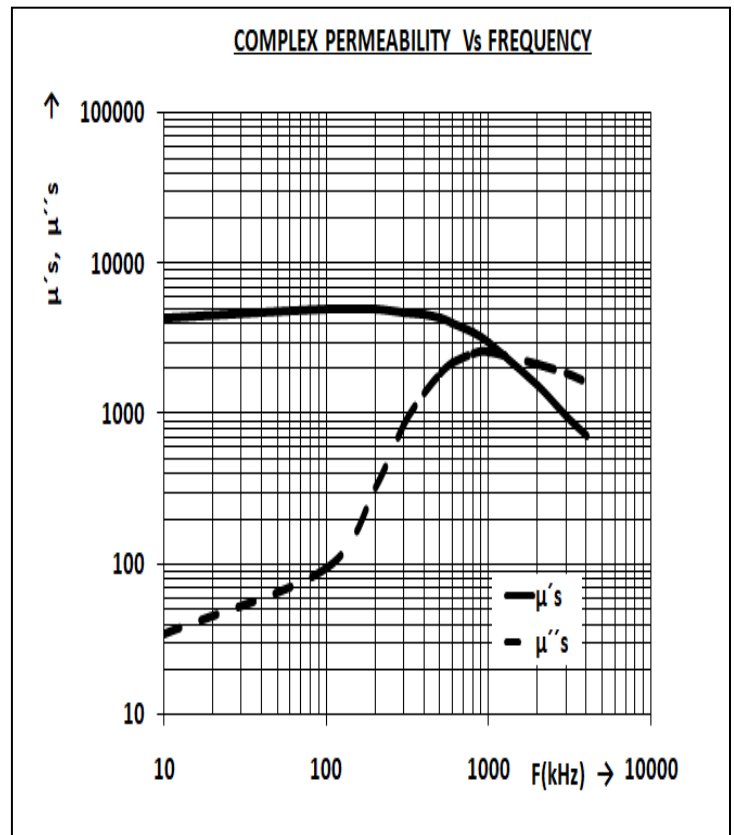
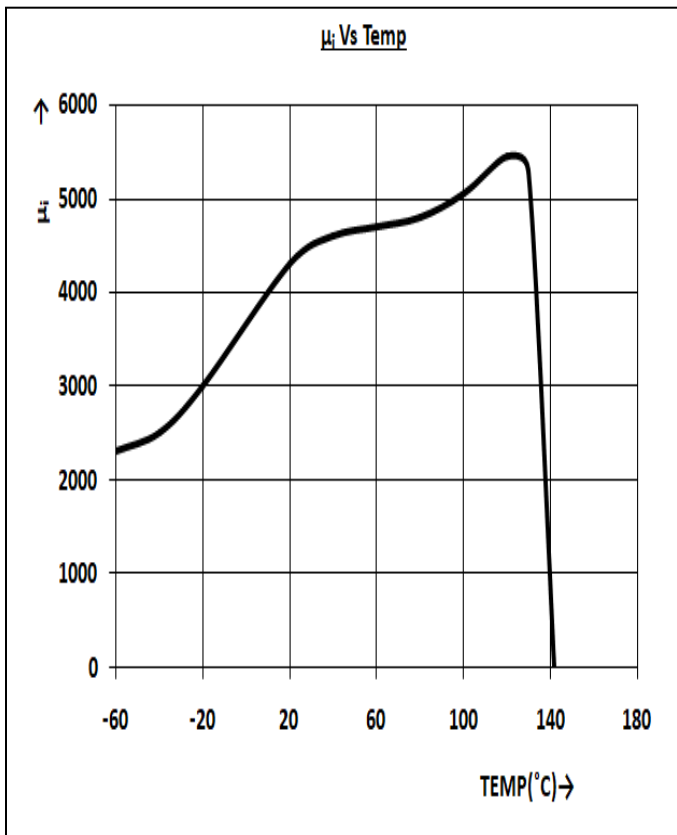
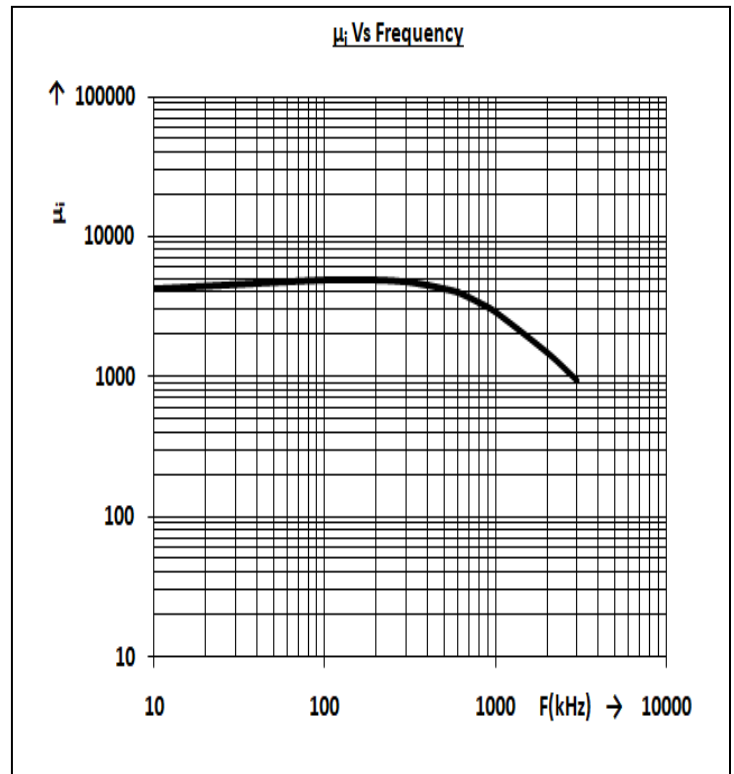
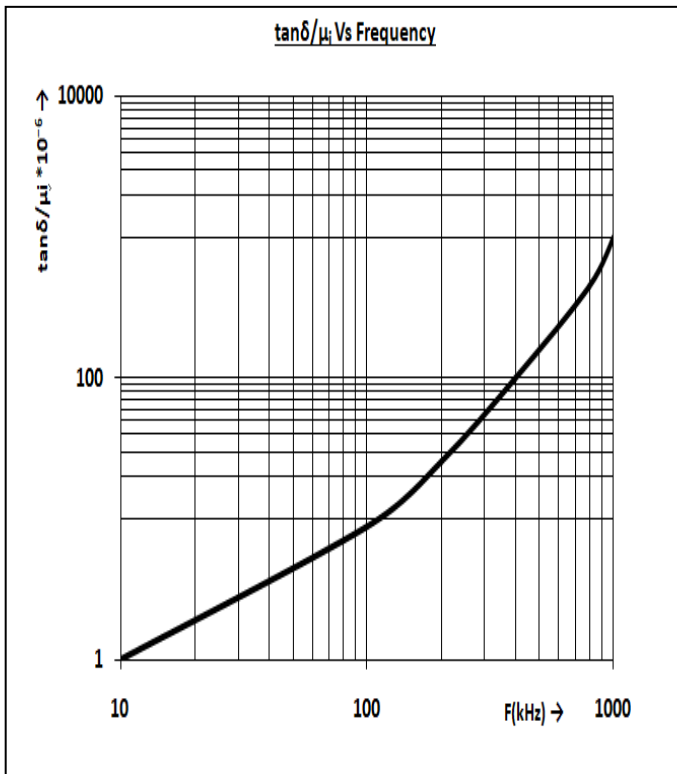
CF191

Application	Broadband Transformers
Material	Mn-Zn

Material Properties	Conditions	Symbol	Value	Unit
Initial Permeability	25°C, 10kHz, $\leq 0.25\text{mT}$	μ_i	4300 $\pm 20\%$	
Flux Density	25°C; 10kHz; 1200A/m	B_s	380	mT
	100°C; 10kHz; 1200A/m	B_s	240	mT
Coercive Field Strength	25°C; 10kHz	H_c	12	A/m
	100°C; 10kHz	H_c	8	A/m
Hysteresis Material Constant	25°C;	η_B	< 1.1	10^{-6}mT
Curie Temperature	10kHz; $\leq 0.25\text{mT}$	T_c	> 140	°C
Density	25°C	ρ	4.8×10^3	kg/m ³
Resistivity	25°C	ρ_{DC}	0.5	Ωm
Relative Core Loss Factor	25°C; 10 kHz	$\tan \delta / \mu_i$	≤ 2	$*10^{-6}$
	25°C; 400 kHz	$\tan \delta / \mu_i$	≤ 60	$*10^{-6}$

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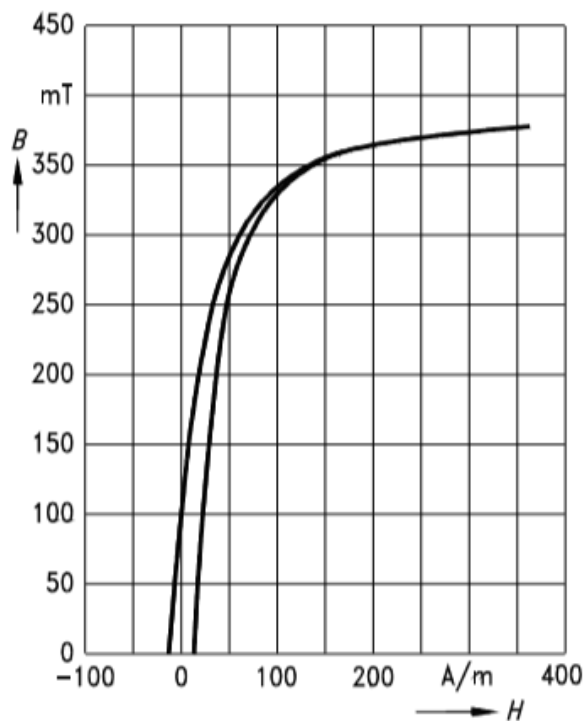


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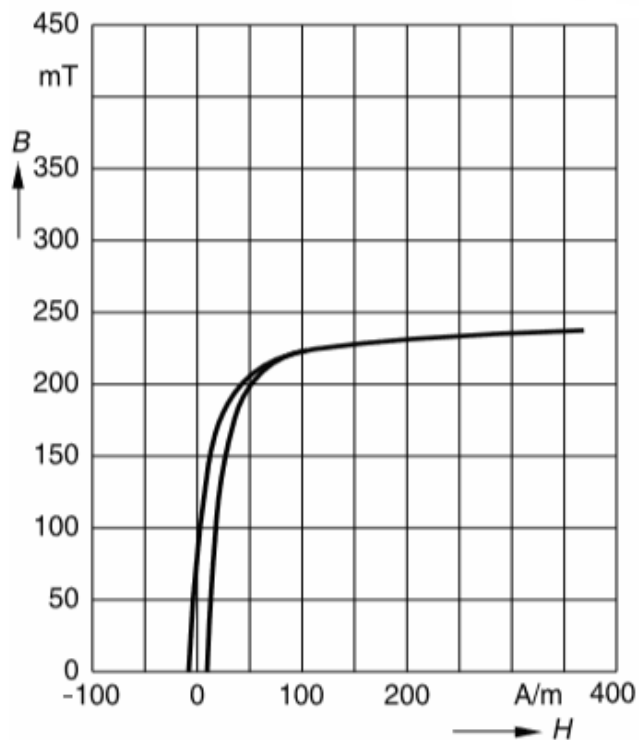
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CF191 B-H CURVE 25°C



CF191 B-H CURVE 100°C



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