

Typical Material Datasheet
CF246

Application	Broadband transformers
Material	Mn-Zn

Material Properties	Conditions	Symbol	Value	Unit
Initial Permeability	25°C, 10kHz, $\leq 0.25\text{mT}$	μ_i	3800 $\pm 25\%$	
Flux Density	25°C, 10 kHz, 1200A/m	B_s	550	mT
	100°C, 10 kHz, 1200A/m	B_s	435	mT
Curie Temperature		T_c	>245	°C
Density	25°C	d	4.8×10^3	kg/m ³
Resistivity	25°C	ρ_{DC}	8	$\Omega\text{-m}$
Relative temperature coefficient	10 kHz, 0.25 mT, 5°C-25°C	α_F	4.44×10^{-6}	/°C
	100 kHz, 0.25 mT, 25°C-55°C		-2.22×10^{-6}	
Relative loss factor	10 kHz, 25°C, 0.25 mT	$\tan\delta / \mu_i$	$< 1 \times 10^{-6}$	
	100 kHz, 25°C, 0.25 mT		$< 2 \times 10^{-6}$	

Material data specified here on the basis of the test results of toroid T2512

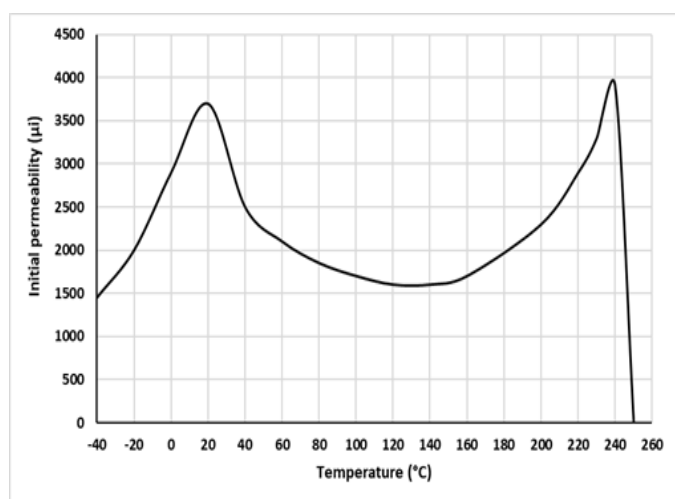


Figure 1: Temperature dependent permeability curve

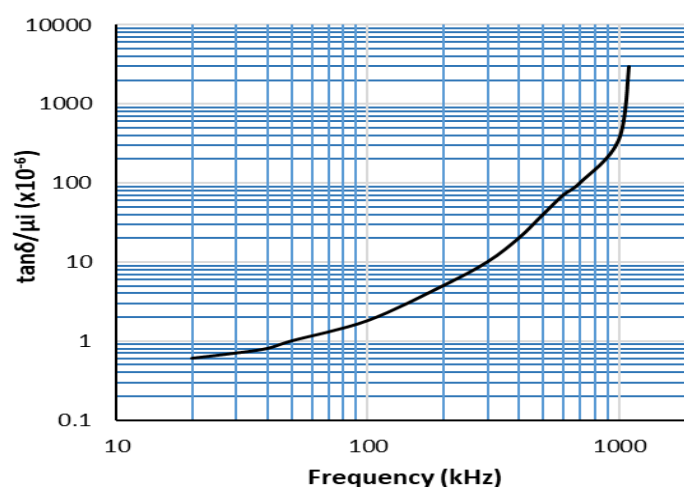


Figure 2: Relative loss factor vs frequency