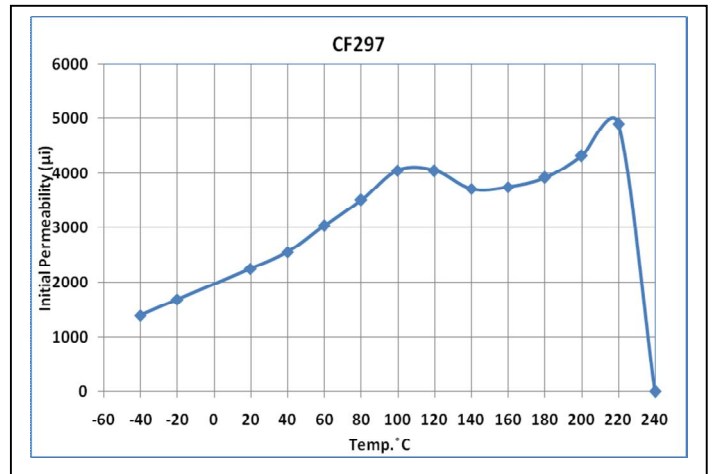
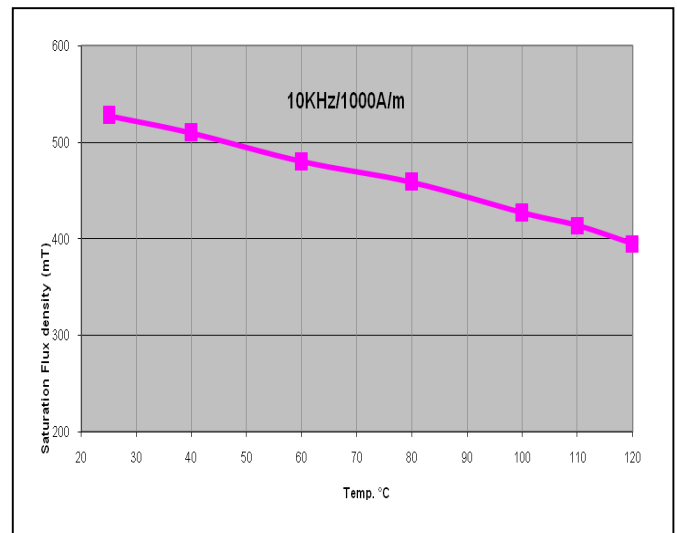
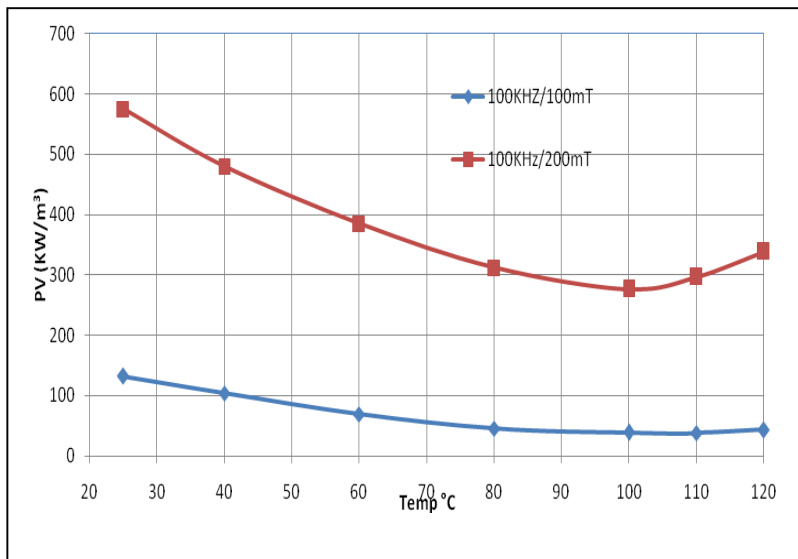


CF297 - Material Characteristics

Property	Symbol	Unit	CF297
Initial Permeability (T = 25 °C)	μ_i		2300±20%
Flux density (H = 1000 A/m, f = 10 kHz)	B_s (25 °C)	mT	510
	B_s (100 °C)	mT	410
Coercive field strength (f=10kHz)	H_c (25 °C)	A/m	21
Power loss density 100 KHz, 100 mT, 25 °C 100 °C 100 KHz, 200 mT, 25 °C 100 °C	P_v	kW/m ³	----
			≤50
			≤600 ≤350
Curie Temperature	T_c	°C	>220 °C
Resistivity	ρ	Ωm	
Density	d	Kg/m ³	4800
Core Shapes			Toroids,ETD E,EP,



(Material Data specified here have been derived from measurements on Toroidal Cores T2512)



Characteristics:

- This power material is characterized by a flat power density Vs. Temperature curve between 80 °C and 120 °C .
- Improved power efficiency over a wide temperature range.

Applications:

- Power material with Low losses at Higher temperatures for Automotive applications
- This material applicable where large variation in operating temperature occurs.
- Power charging systems for electric vehicles.
- DC-DC converters for electric and hybrid cars.
- Solar inverters.



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