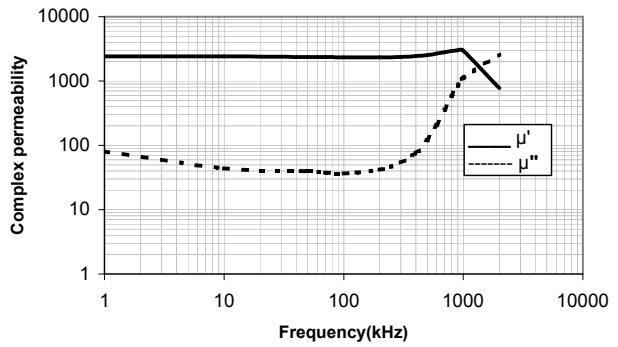
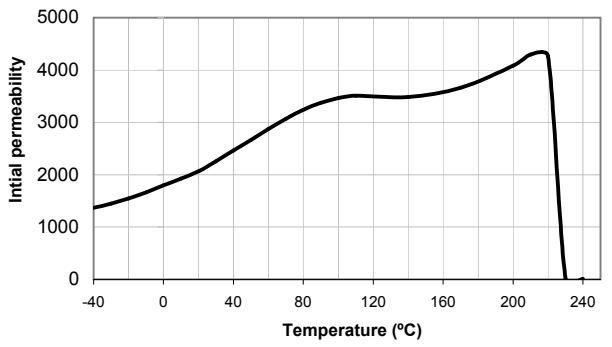
HP-380 : Power Transformer Grade

Properties	Symbol	Unit	Test condition	Values
Initial permeability (±25%)	μi		0.1mT, 25°C	2200
Flux density (min)	Bs	mT	1200A/m, 25°C	490
			1200A/m, 100°C	390
Coercive Field (max)	Hc	A/m	10kHz, 25°C	11
Hysteris material Coefficient (max)	η_B	10^{-6}/mT	25°C	1
Curie Temperature (min)	Tc	°C		210
Density (min)	d	kg/m^3	25°C	4850
Temperature Coeff. of permeability (max)	α_F	10^{-6}/K	-40 to 80°C	4
Resisitivity (min)	ρ	Ωm	25°C	5
Powerloss (max)	Pc	mW/cc	100kHz, 200mT, 100°C	380

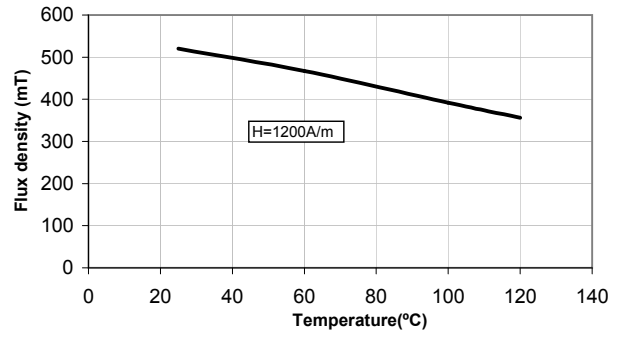
Complex permeability vs frequency



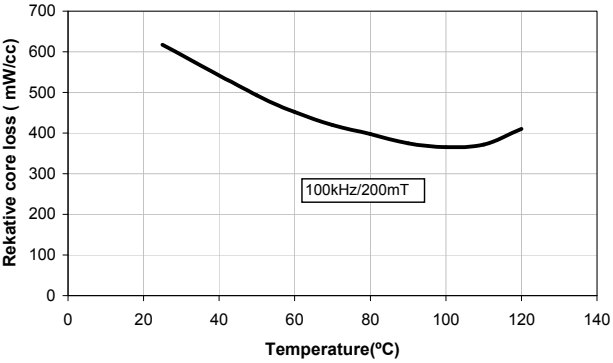
Initial permeability vs temperature



Flux density vs. temperature



Relative core losses vs temperature



All measurements made on Toroid OD= 30mm, ID=20mm Ht=10mm.