

NH51W 材料特性

NH51W Material Characteristics

初始磁导率 μ_i initial permeability μ_i	900±25%		
饱和磁通密度 B_s (mT) Saturation flux density 1194A/m	25℃	530	
	100℃	435	
剩磁 B_r (mT) Residual flux density	25℃	100	
	100℃	70	
矫顽力 H_c (A/m) Coercivity	25℃	30	
	100℃	25	
功率损耗 P_v mw/cm ³ Power Loss		1MHz, 50mT	2MHz, 50mT
	25℃	120	650
	100℃	100	550
居里温度 T_c (℃) Curie temp.	≥260℃		
电阻率 ρ ($\Omega \cdot m$) Resistivity	--		
密度 d (g/cm ³) Density	4.8		

以上数据是根据标准样环 $\Phi 12.5 \times \Phi 7.5 \times 7$ 获得典型数据,有关产品的具体性能会在此基础上有所调整。

The above typical data are calculated from the standard toroid core. The specific property of any parts will be adjusted a little based on these.

NH51W 材料曲线

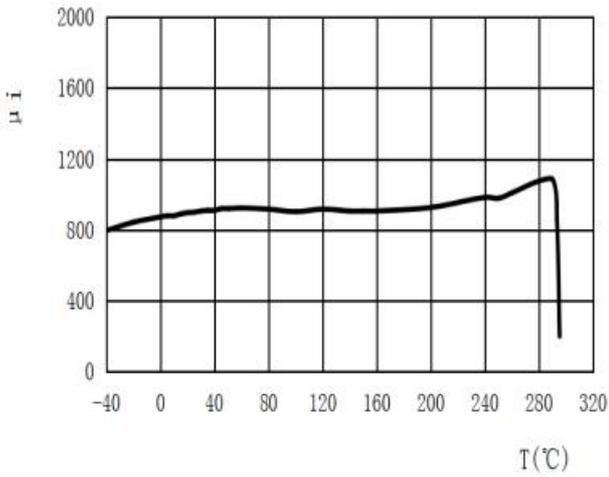


Fig1 Permeability vs. Temperature

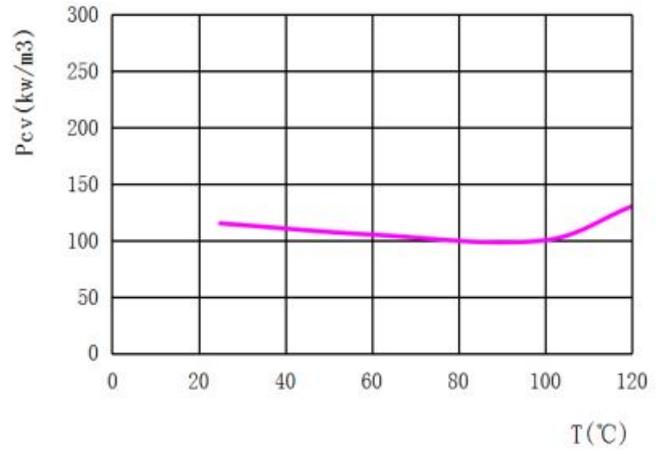


Fig.2 Power Loss (1MHz, 50mT) vs. Temperature

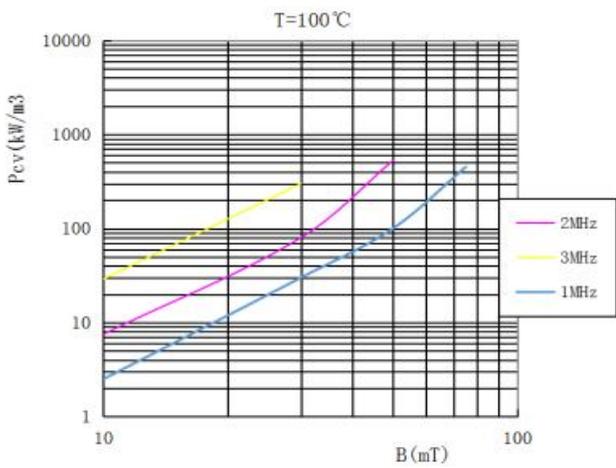


Fig.3 Power Loss vs. Flux Density

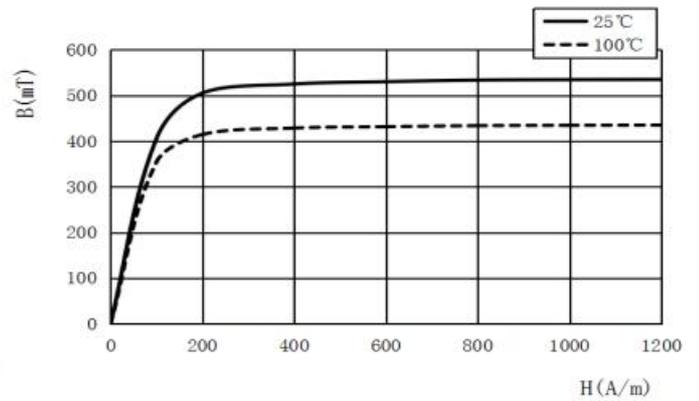


Fig.4 Magnetization Curves