

## NH51 材料特性

### NH51 Material Characteristics

初始磁导率 $\mu_i$ initial permeability $\mu_i$	1100±25%		
饱和磁通密度 $B_s$ (mT) Saturation flux density 1194A/m	25°C	500	
	100°C	410	
剩磁 $B_r$ (mT) Residual flux density	25°C	150	
	100°C	100	
矫顽力 $H_c$ (A/m) Coercivity	25°C	35	
	100°C	26	
功率损耗 $P_v$ mw/cm <sup>3</sup> Power Loss			1MHz,30mT
	25°C		80
	100°C		60
	120°C		80
居里温度 $T_c$ (°C) Curie temp.	≥240°C		
电阻率 $\rho$ ( $\Omega \cdot m$ ) Resistivity	30		
密度 $d$ (g/cm <sup>3</sup> ) Density	4.7		

以上数据是根据标准样环Φ25×Φ15×8 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.

# NH51 材料曲线

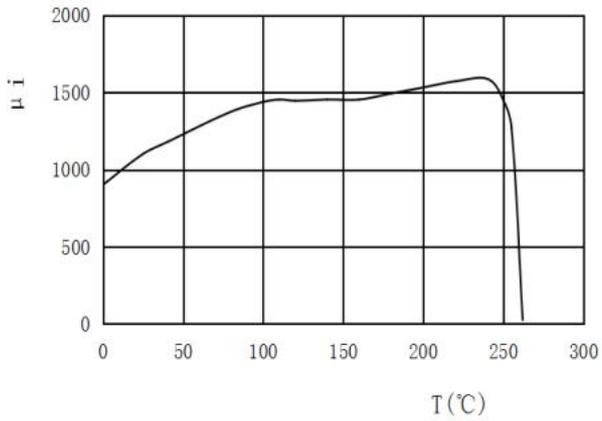


Fig1 Permeability vs. Temperature

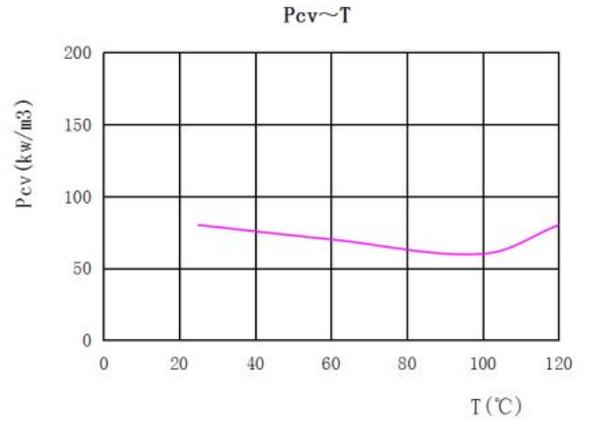


Fig.2 Power Loss ( 1MHz, 30mT ) vs. Temperature

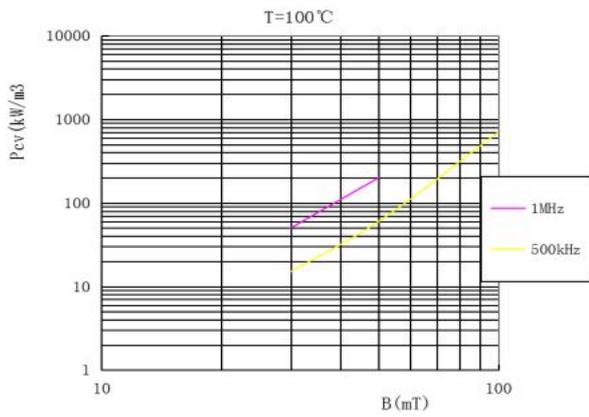


Fig.3 Power Loss vs. Flux Density

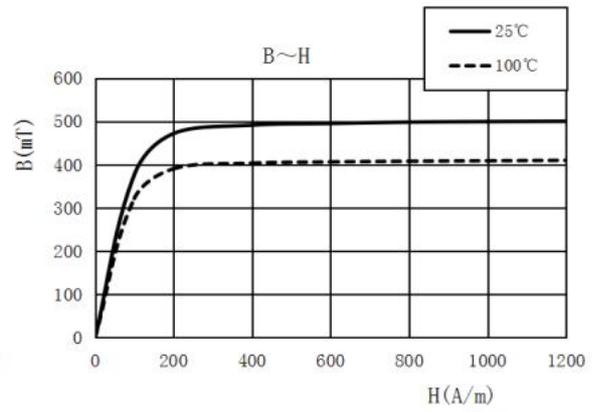


Fig.4 Magnetization Curves