

LF5A 材料特性

LF5A Material Characteristics

初始磁导率 μ_i initial permeability μ_i	5500±25%	
饱和磁通密度 B_s (mT) Saturation flux density 1194A/m	25°C	410
剩磁 B_r (mT) Residual flux density	25°C	70
矫顽力 H_c (A/m) Coercivity	25°C	7.2
比损耗 $\tan \delta / \mu_i$ (10kHz) $\times 10^{-6}$ Relative loss factor	25°C	<3.5
居里温度 T_c (°C) Curie temp.	>140°C	
电阻率 ρ ($\Omega \cdot m$) Resistivity	0.15	
密度 d ($kg/m^3 \times 10^3$) Density	4.85	

以上数据是根据标准样环 $\Phi 25 \times \Phi 15 \times 6$ 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 data.

▶ LF5A材料特点

- 较高磁导率（5500左右）。
- 较低损耗因子。
- 温度稳定性好（20°C~70°C）。

▶ LF5A MATERIAL CHARACTERISTICS

- High initial permeability(around 5500)
- Low relative loss factor
- Good temperature stability(from 20°C to 70°C)

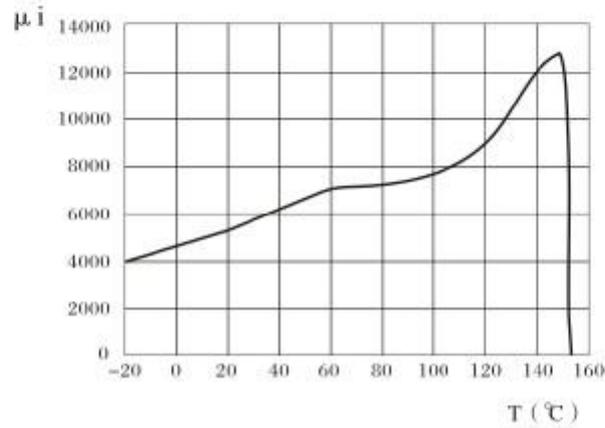


Fig.1 Permeability vs. Temperature 磁导率之温度特性

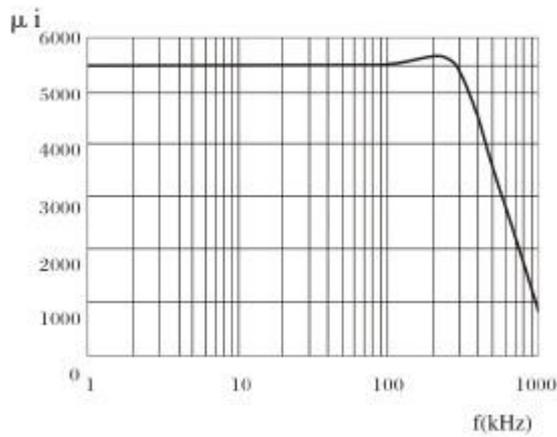


Fig2 Permeability vs. Frequency 磁导率随频率的变化

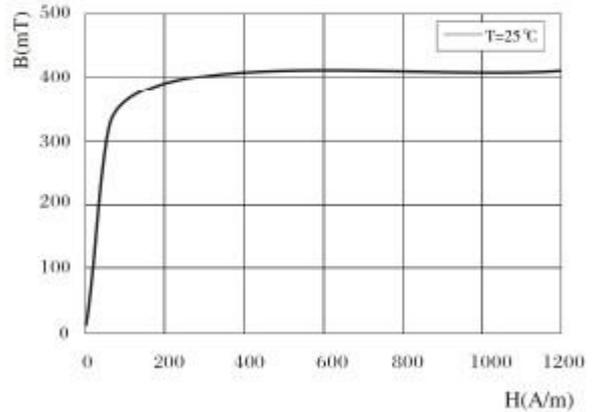


Fig.3 Magnetization Curves 磁化曲线