

## LF13A 材料特性

### LF13A Material Characteristics

初始磁导率 $\mu_i$ initial permeability $\mu_i$	13000 $\pm$ 30%	
饱和磁通密度 $B_s$ (mT) Saturation flux density 1194A/m	25 $^{\circ}$ C	390
剩磁 $B_r$ (mT) Residual flux density	25 $^{\circ}$ C	100
矫顽力 $H_c$ (A/m) Coercivity	25 $^{\circ}$ C	5
比损耗 $\tan \delta / \mu_i$ (10kHz) $\times 10^{-6}$ Relative loss factor	25 $^{\circ}$ C	$<7$
居里温度 $T_c$ ( $^{\circ}$ C) Curie temp.	$>110^{\circ}$ C	
电阻率 $\rho$ ( $\Omega \cdot m$ ) Resistivity	0.1	
密度 $d$ (kg/m $^3 \times 10^3$ ) Density	4.95	

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.

▶ LF13A材料特点

- 高磁导率（13000左右）。
- 较低损耗因子。
- 温度稳定性好（20℃~70℃）。

▶ LF13A MATERIAL CHARACTERISTICS

- High initial permeability(around 13000)
- Low relative loss factor
- Good temperature stability(from 20°C to 70°C)

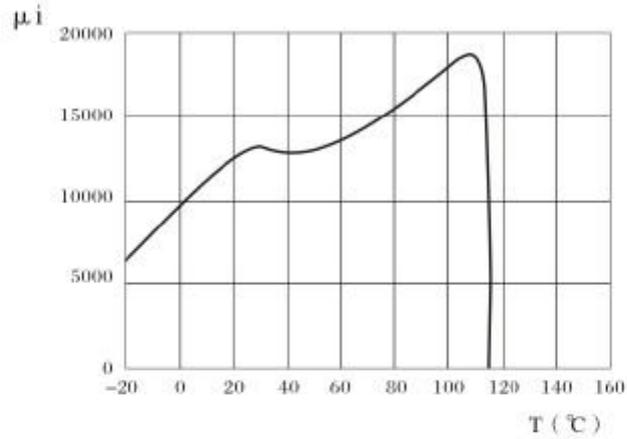


Fig.1 Permeability vs. Temperature 磁导率之温度特性

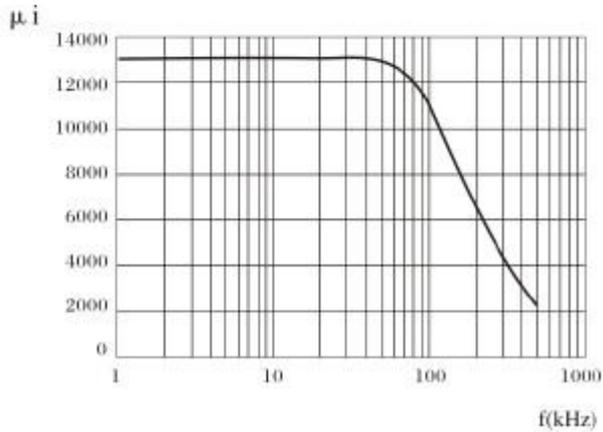


Fig2 Permeability vs. Frequency 磁导率随频率的变化

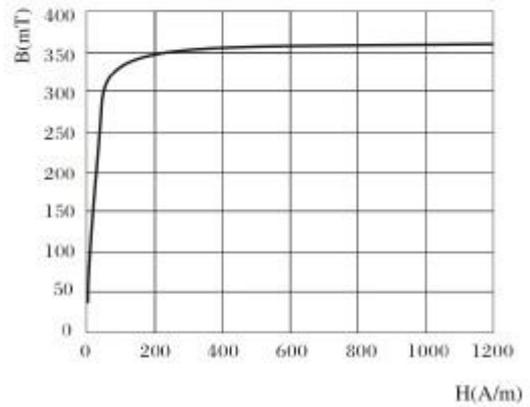


Fig.3 Magnetization Curves 磁化曲线