

R7K 材料特性

R7K Material Characteristics

初始磁导率 μ_i Initial Permeability		7000 ± 25%
比损耗因子 $\tan \delta / \mu_i$ (100kHz) Relative Loss Factor	$\times 10^{-6}$	< 30.0
饱和磁通密度 B_s (mT) Saturation flux density 1194A/m	mT	420
剩磁 B_r (mT) Residual flux density	mT	110
矫顽力 H_c (A/m) Coercivity Force	A/m	7.0
比温度系数 $\alpha_{\mu r}$ (20°C~60°C)Relative Temperature Coefficient	$\times 10^{-6}/^\circ\text{C}$	-0.5~2.0
比磁滞损耗系数 (η_B) hysteresis material constant 25°C, 10kHz, 1.5~3mT	$\times 10^{-6}/\text{mT}$	< 1.2
居里温度 T_c (°C) Curie temperature	°C	> 125
电阻率 ρ ($\Omega \cdot \text{m}$) Resistivity	$\Omega \cdot \text{m}$	0.2
密度 d (g/cm^3) Density	(G/cm^3)	4.9

以上数据是根据标准样环 $\phi 25 \times \phi 15 \times 8$ 获得的典型数据, 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 performance of specific parts will vary slightly.



