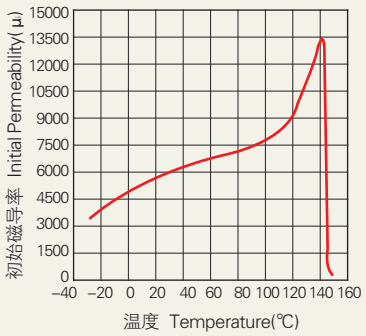
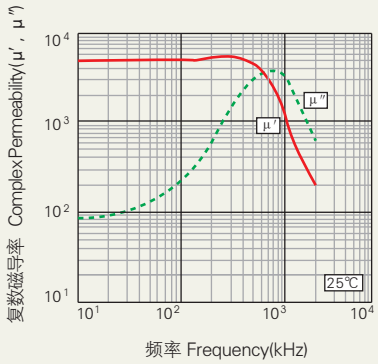
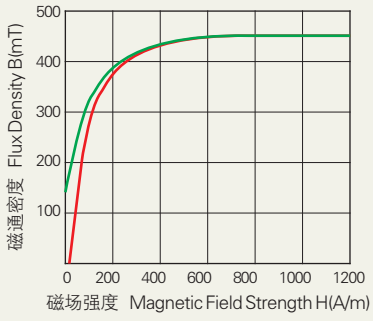
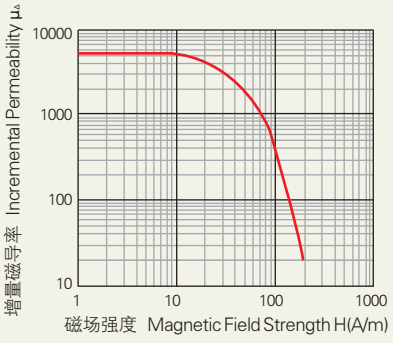
R5K材料特性 · R5K Material Characteristics

特性 SYMBOL	测试条件 CONDITIONS		典型值 VALUE
初始磁导率 μ_i Initial permeability	10kHz,B<0.25mT	25℃	5000 ± 25%
比损耗因子tan δ / μ_i Relative loss factor	100kHz,B<0.25mT	25℃	$< 15.0 \times 10^{-6}$
饱和磁通密度Bs（mT） Saturation flux density	50Hz ,1194A/m	25℃	430
剩磁Br(mT) Residual flux density		25℃	140
矫顽力Hc(A/m) Coercive force		25℃	8
比温度系数 $\alpha_{\mu r}$（1/℃） Relative temperature coefficient		20℃ ~ 60℃	$-0.5 \sim 2.0 \times 10^{-6}$
磁滞常数 η_B（/mT） Hysteresis material constant	10kHz,1.5~3mT	25℃	$< 1 \times 10^{-6}$
居里温度Tc(℃) Curie temperature			> 140
电阻率 ρ（Ω · m) Resistivity			0.5
密度d（g/cm³） Density			4.85









以上数据是根据标准样环 φ25 × φ15 × 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. Specific performance of the product will be adjusted on this basis.