

## FS170 材料特性

## FS170 Material Characteristics

| 特性<br>SYMBOL                                                                    | 测试条件<br>CONDITIONS                                     |                               | 典型值<br>VALUE     |
|---------------------------------------------------------------------------------|--------------------------------------------------------|-------------------------------|------------------|
| 磁导率( $\mu$ )<br>Initial Permeability                                            | $\mu'$                                                 | 25°C<br>(13.56MHz)            | 170±20%          |
|                                                                                 | $\mu''$ (ref)                                          |                               | ≤6               |
| 饱和磁感应强度 Bs (mT)<br>Saturation magnetic flux<br>Density                          | Bs(mT)                                                 | 25 °C<br>f=100kHz<br>H=900A/m | 320              |
| 剩磁 Br(mT)<br>Remanence                                                          | Br(mT)                                                 | 25 °C<br>f=100kHz<br>H=900A/m | 185              |
| 矫顽力 Hc(A/m)<br>Coercivity                                                       | Hc(A/m)                                                | 25 °C<br>f=100kHz<br>H=900A/m | 165              |
| 相对温度系数( $\times 10^{-6}/^{\circ}\text{C}$ )<br>Relative Temperature Coefficient | $\alpha_{ur}$<br>( $\times 10^{-6}/^{\circ}\text{C}$ ) | 20~60°C                       | 5~15             |
| 居里温度 Tc (°C)<br>Curie Temperature                                               | Tc (°C)                                                |                               | >180             |
| 电阻率( $\Omega \cdot \text{m}$ )<br>Electrical Resistivity                        | $\rho(\Omega \cdot \text{m})$                          | 25°C                          | >10 <sup>9</sup> |
| 密度 d (g/cm <sup>3</sup> )<br>Density                                            | d (g/cm <sup>3</sup> )                                 | 25°C                          | 4.9              |

