

## Material Characteristics-



| High Bm                  | Symbol                | Unit              | Measurtionsing Conditions |         | Material         |
|--------------------------|-----------------------|-------------------|---------------------------|---------|------------------|
|                          |                       |                   | settings                  | Temp.   |                  |
| Initial permeability     | $\mu_i$               |                   | 796kHz;150mV              | 23°C    | 800±25%          |
| Saturation flux density  | Bs                    | mT                | H=4000A/m                 | 23°C    | 410              |
|                          |                       |                   |                           | 100°C   | 290              |
| Relative temp factor     | $\alpha_{\mu i}$      | ×10-6             | 100kHz                    | 20~60°C | 1~10             |
| Coercive force           | Hc                    | A/m               | H=4000A/m                 | 23°C    | 32               |
| Core loss volume density | Pcv                   | kW/m <sup>3</sup> | 50kHz;150mT               | 20°C    | 560              |
|                          |                       |                   |                           | 140°C   | 550              |
| Relative loss factor     | $\tan \delta / \mu_i$ | ×10-6             | 300kHz                    |         | 25               |
| Curie temperature        | Tc                    | °C                | 100kHz                    |         | 190              |
| Electrical resistivity   | $\rho$                | $\Omega / m$      |                           |         | 10 <sup>-6</sup> |
| Density                  | ds                    | g/cm <sup>3</sup> |                           |         | 5.2              |

