

## Material characteristics



| Characteristics                  | Symbol           | Unit               | seettings        | Temp.      | MFN120  |
|----------------------------------|------------------|--------------------|------------------|------------|---------|
| Initial permeability             | $\mu_i$          | $\mu_i$            | 1MHz,1V          | 25°C       | 120± 20 |
| Saturation magnetic flux density | Bs               | T                  | H=20000 (A/m)    | 25°C       | 1.5     |
| Core loss volume density Pcv     | Pcv              | mW/cm <sup>3</sup> | f=50kHz<br>100mT | 25°C       | 200     |
| Relative temperature coefficient | $\alpha_{\mu r}$ | 10 <sup>-6</sup>   |                  | -20 ~ 60°C | 1.7~2.5 |
| Curie temperature                | Tc               | °C                 |                  |            | 500     |
| Electrical resistivity           | $\rho$           | MΩ                 | 25V              | 25°C       | 0       |
| Density                          | ds               | g/cm <sup>3</sup>  |                  | 25°C       | 7.6     |

