

## Material characteristics

| Characteristics                  | Symbol           | Unit               | seettings        | Temp.    | MPT21  |
|----------------------------------|------------------|--------------------|------------------|----------|--------|
| Initial permeability             | $\mu_i$          | $\mu_i$            | 1MHz,1V          | 25°C     | 21±10% |
| Saturation magnetic flux density | Bs               | T                  | H=20000 (A/m)    | 25°C     | >1.0   |
| Core loss volume density Pcv     | Pcv              | mW/cm <sup>3</sup> | f=500KHz<br>30mT | 25°C     | <900   |
| Relative temperature coefficient | $\alpha_{\mu r}$ | 10 <sup>-5</sup>   |                  | -20~60°C | 8~18   |
| Curie temperature                | Tc               | °C                 |                  |          | ~300   |
| Electrical resistivity           | $\rho$           | MΩ                 | 25V              | 25°C     | >1     |
| Density                          | ds               | g/cm <sup>3</sup>  |                  | 25°C     | >5.3   |

