

# MATERIAL DATA SHEET



**Material Specification : CF265**



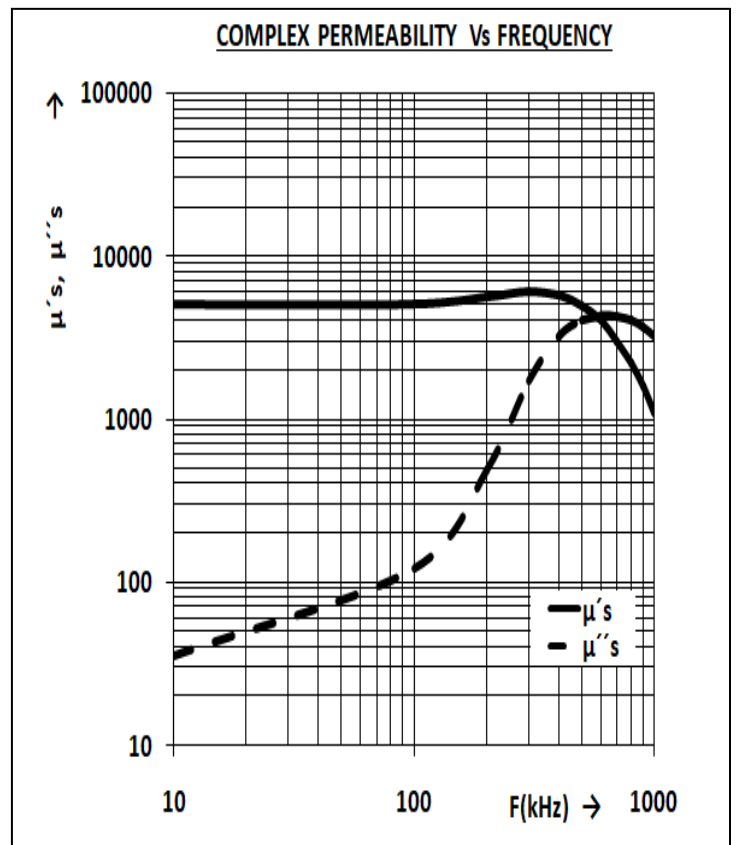
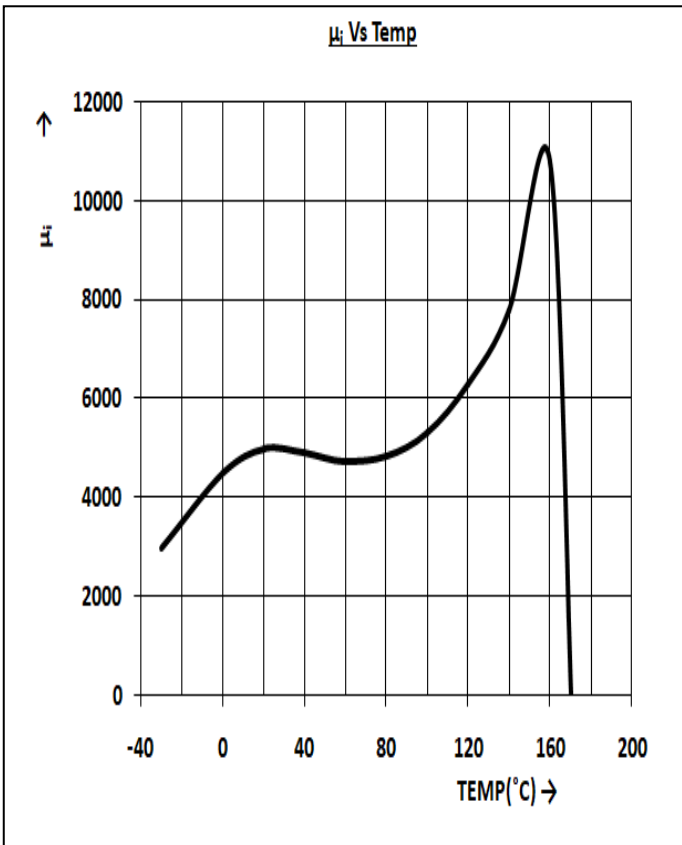
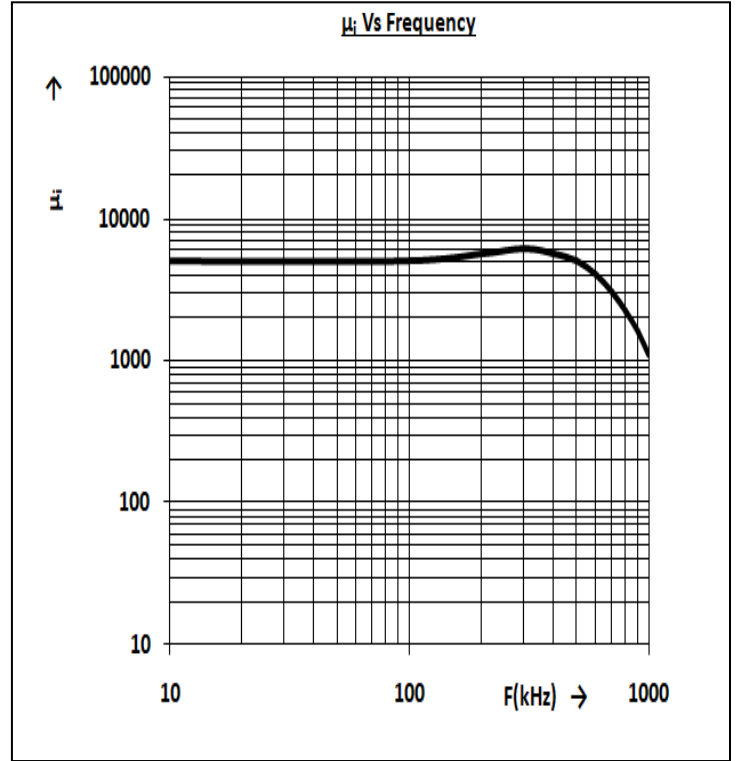
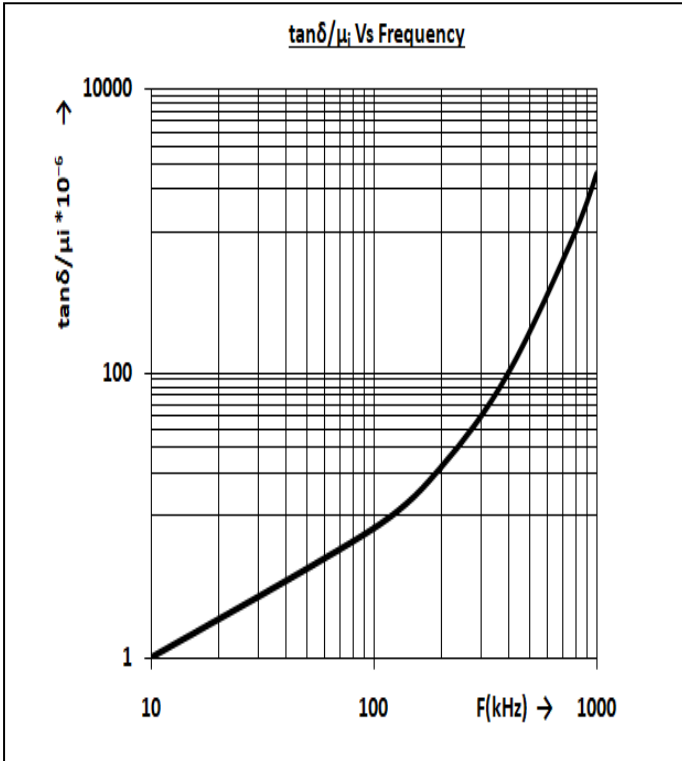
|                    |                        |
|--------------------|------------------------|
| <b>Application</b> | Broadband Transformers |
| <b>Material</b>    | Mn-Zn                  |

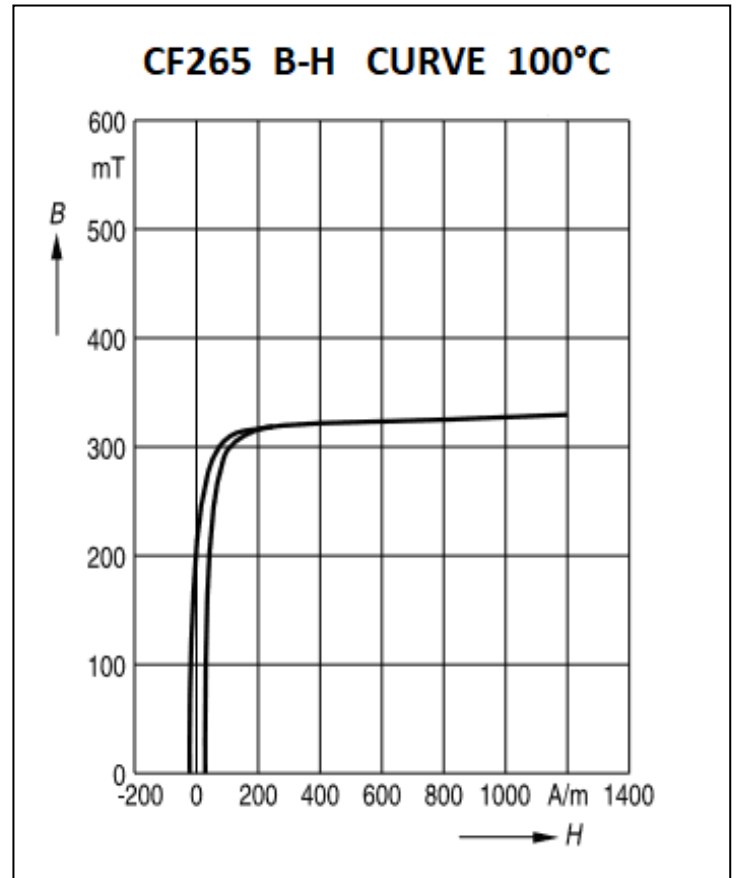
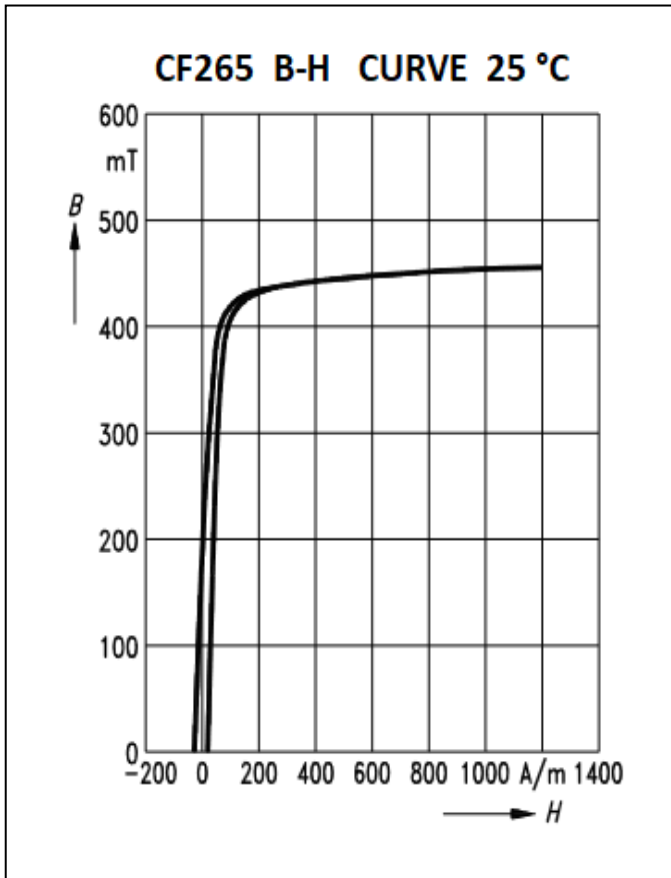
| Material Properties                 | Conditions            | Symbol              | Value                 | Unit                |
|-------------------------------------|-----------------------|---------------------|-----------------------|---------------------|
| <b>Initial Permeability</b>         | 25°C, 10kHz, ≤ 0.25mT | $\mu_i$             | 5000 ±20%             |                     |
| <b>Flux Density</b>                 | 25°C; 10kHz; 1200A/m  | $B_s$               | 460                   | mT                  |
|                                     | 100°C; 10kHz; 1200A/m | $B_s$               | 320                   | mT                  |
| <b>Coercive Field Strength</b>      | 25°C; 10kHz           | $H_c$               | 12                    | A/m                 |
|                                     | 100°C; 10kHz          | $H_c$               | 11                    | A/m                 |
| <b>Hysteresis Material Constant</b> | 25°C;                 | $\eta_B$            | < 1.1                 | 10 <sup>-6</sup> mT |
| <b>Curie Temperature</b>            | 10kHz; ≤0.25mT        | $T_c$               | > 160                 | °C                  |
| <b>Density</b>                      | 25°C                  | $\rho$              | 4.8 × 10 <sup>3</sup> | kg/m <sup>3</sup>   |
| <b>Resistivity</b>                  | 25°C                  | $\rho_{DC}$         | 0.3                   | Ωm                  |
| <b>Relative Core Loss Factor</b>    | 25°C; 10 kHz, 0.25mT  | $\tan \delta/\mu_i$ | ≤ 1.5                 | *10 <sup>-6</sup>   |
|                                     | 25°C; 200 kHz, 0.25mT | $\tan \delta/\mu_i$ | ≤ 25                  | *10 <sup>-6</sup>   |

Date: 20 May 2018

\*Material data specified here have been derived from measurement on toroid core T2512







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