

DATA SHEET

4B2 Material specification

Supersedes data of September 2004

2008 Sep 01

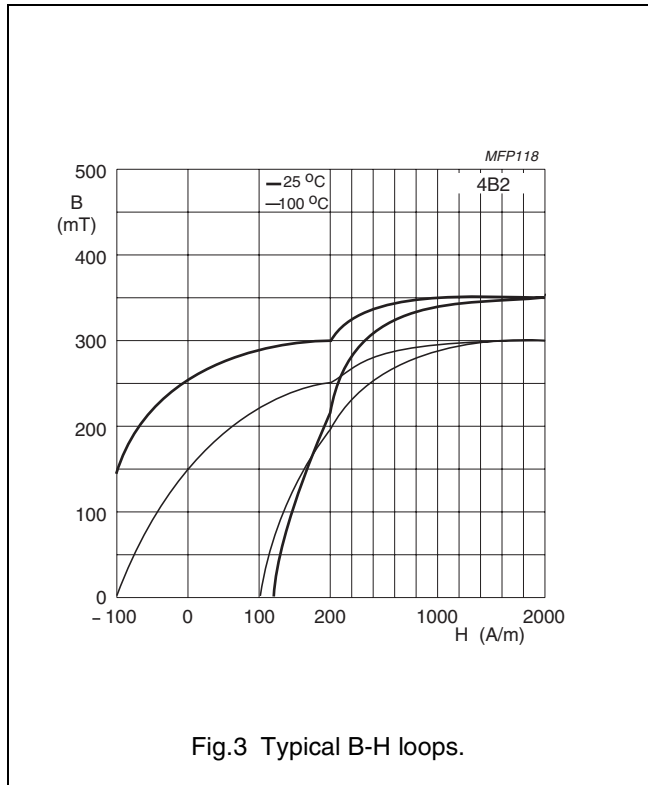
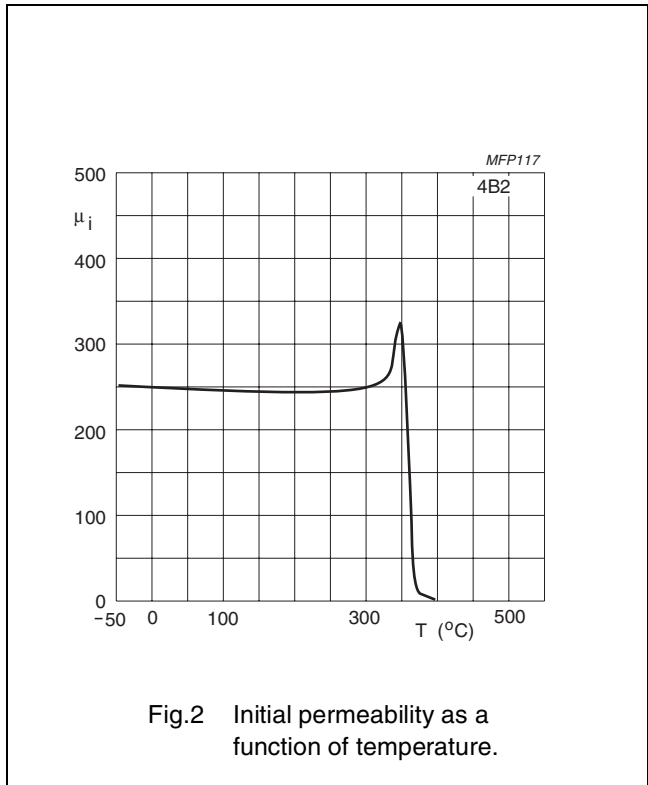
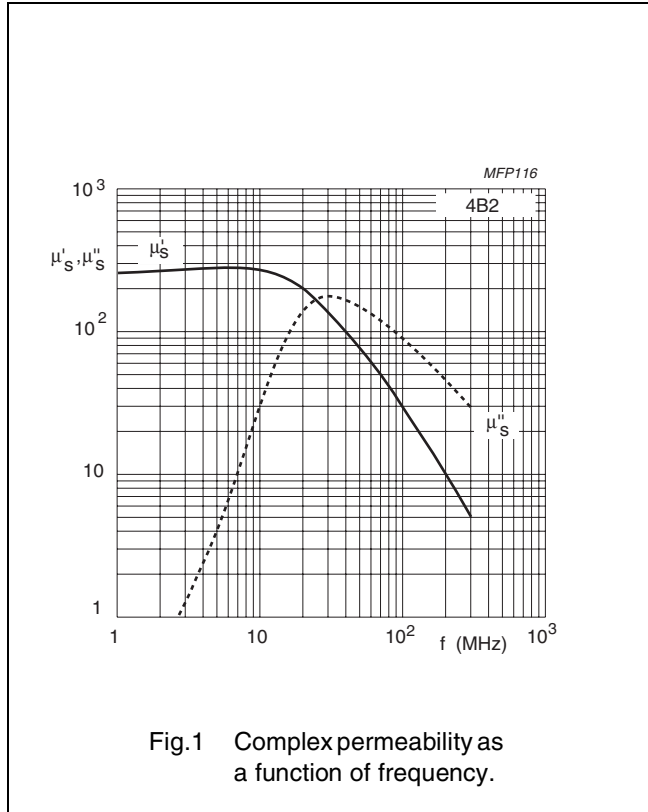
Material specification

4B2

4B2 SPECIFICATIONS

Medium permeability NiZn ferrite for use in RF tuning, especially antenna rods in RFID transponders in automotive applications, and wideband and balun transformers.

| SYMBOL | CONDITIONS | VALUE | UNIT |
|--------------------|---|---|-------------------|
| μ_i | 25 °C; ≤ 10 kHz; 0.25 mT | 250 ± 20 % | |
| B | 25 °C; 10 kHz; 3000 A/m 100 °C; 10 kHz; 3000 A/m | ≈ 360 ≈ 310 | mT |
| $\tan\delta/\mu_i$ | 25 °C; 3 MHz; 0.25 mT | $\leq 300 \times 10^{-6}$ | |
| α_F | ≤ 10 kHz; 0.25 mT; -40 to 25 °C -10 to 55 °C 0 to 25 °C 25 to 55 °C 25 to 85 °C | $(-1 \pm 4) \times 10^{-6}$ $(-1 \pm 4) \times 10^{-6}$ $(-2.5 \pm 4) \times 10^{-6}$ $(2 \pm 4) \times 10^{-6}$ $(0.5 \pm 4) \times 10^{-6}$ | K ⁻¹ |
| ρ | DC; 25 °C | $\approx 10^5$ | Ωm |
| T_C | | ≥ 335 | °C |
| density | | ≈ 4600 | kg/m ³ |



DATA SHEET STATUS DEFINITIONS

| DATA SHEET STATUS | PRODUCT STATUS | DEFINITIONS |
|---------------------------|----------------|--|
| Preliminary specification | Development | This data sheet contains preliminary data. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product. |
| Product specification | Production | This data sheet contains final specifications. Ferroxcube reserves the right to make changes at any time without notice in order to improve design and supply the best possible product. |

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PRODUCT STATUS DEFINITIONS

| STATUS | INDICATION | DEFINITION |
|------------------|---|--|
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