

DATA SHEET

3S4 Material specification

Supersedes data of September 2004

2008 Sep 01

3S4 SPECIFICATIONS

Wideband EMI-suppression material specified on impedance and optimized for frequencies from 10 to 300 MHz.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	≈ 1700	
B	25 °C; 10 kHz; 1200 A/m 100 °C; 10 kHz; 1200 A/m	≈ 320 ≈ 170	mT
$ Z ^{(1)}$	25 °C; 3 MHz 25 °C; 30 MHz 25 °C; 100 MHz 25 °C; 300 MHz	≥ 25 ≥ 60 ≥ 80 ≥ 90	Ω
ρ	DC; 25 °C	$\approx 10^{-3}$	Ωm
T_C		≥ 110	$^{\circ}\text{C}$
density		≈ 4800	kg/m^3

Note

1. Measured on a bead $\varnothing 5 \times \varnothing 2 \times 10$ mm.

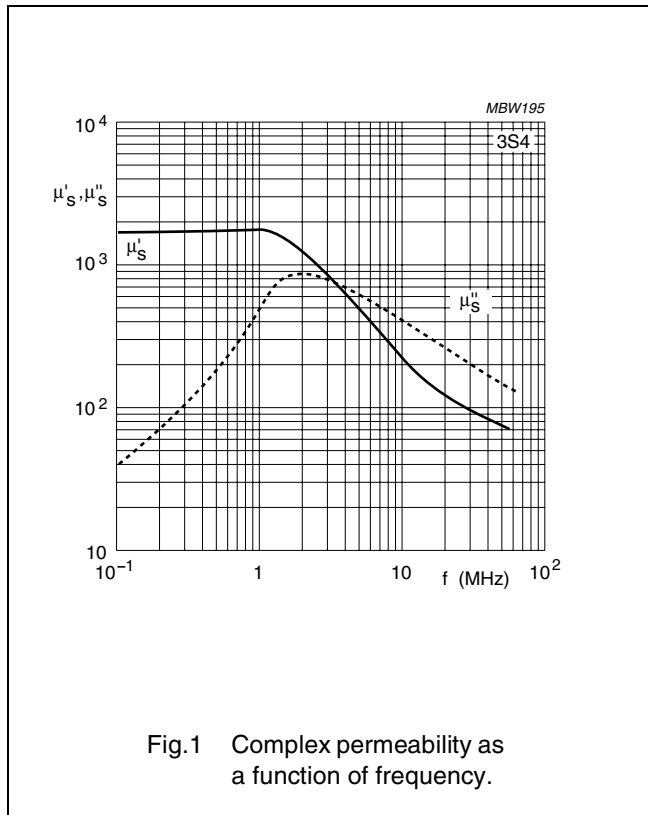


Fig.1 Complex permeability as a function of frequency.

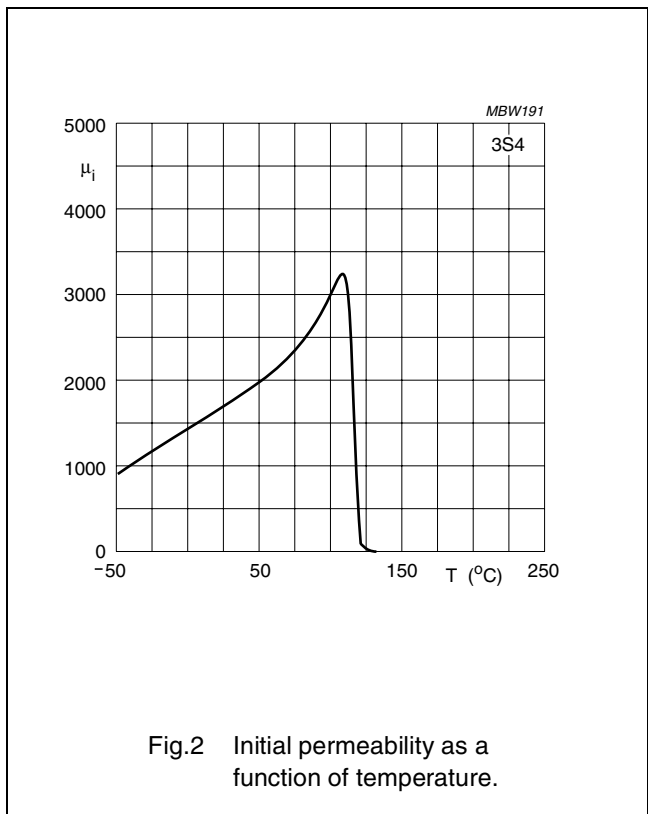


Fig.2 Initial permeability as a function of temperature.

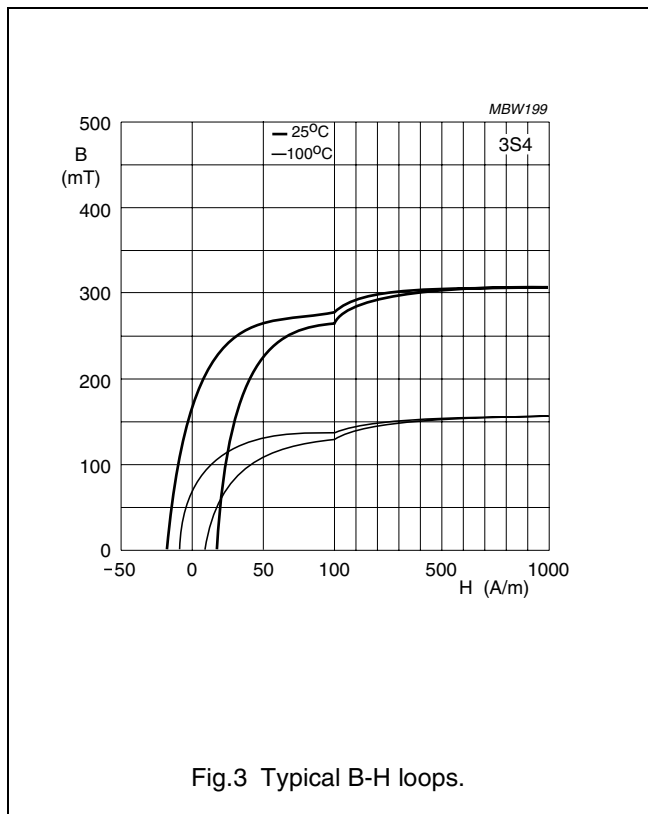


Fig.3 Typical B-H loops.

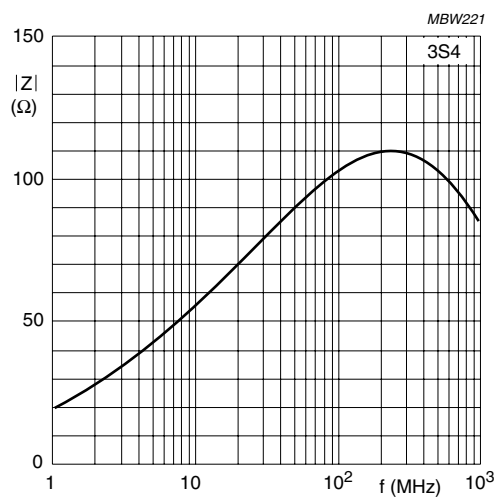


Fig.4 Impedance as a function of frequency measured on a bead $\varnothing 5 \times \varnothing 2 \times 10$ mm.




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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Preferred		These products are recommended for use in current designs and are available via our sales channels.
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