

DATA SHEET

4S2F

Material specification

2013 June 15

4S2F SPECIFICATIONS

Wideband EMI-suppression material specified on impedance and optimized for frequencies from 30 to 1000 MHz.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	≈ 700	
B	25 °C; 10 kHz; 1200 A/m	≈ 290	mT
	100 °C; 10 kHz; 1200 A/m	≈ 170	
$ Z ^{(1)}$	25 °C; 30 MHz	≥ 50	Ω
	25 °C; 300 MHz	≥ 85	
ρ	DC; 25 °C	$\approx 10^4$	Ωm
T_C		≥ 120	$^{\circ}\text{C}$
density		≈ 4800	kg/m^3

Note

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

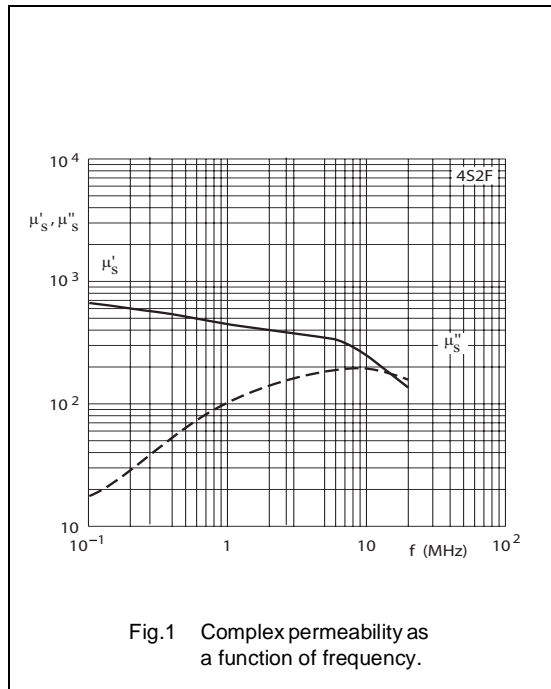


Fig.1 Complex permeability as a function of frequency.

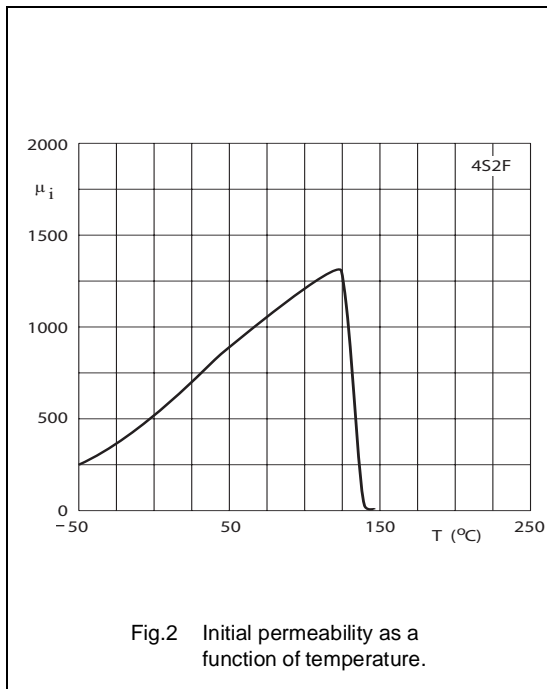


Fig.2 Initial permeability as a function of temperature.

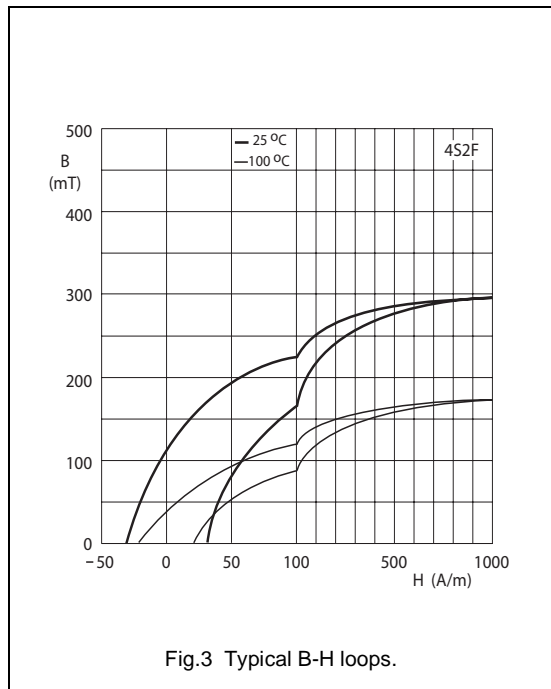


Fig.3 Typical B-H loops.

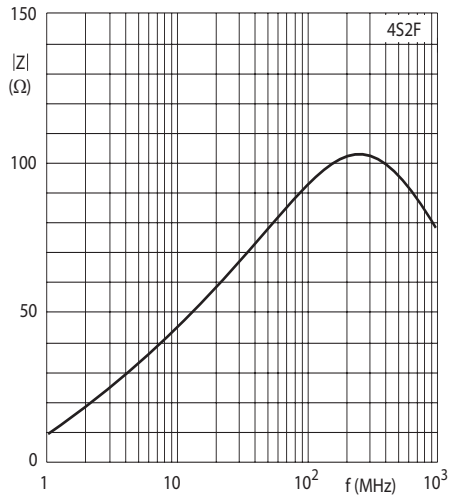


Fig.4 Impedance as a function of frequency, measured on a bead $\varnothing 5 \times \varnothing 2 \times 10$ mm.




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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