

DATA SHEET

4D2

Material specification

Supersedes data of February 2002

2004 Sep 01

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4D2 SPECIFICATIONS

Low permeability NiZn ferrite for use in RF tuning, wideband and balun transformers.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	$60 \pm 20\%$	
B	25 °C; 10 kHz; 10 kA/m	≈ 250	mT
	100 °C; 10 kHz; 10 kA/m	≈ 230	
$\tan\delta/\mu_i$	25 °C; 10 MHz; 0.25 mT	$\leq 100 \times 10^{-6}$	
	25 °C; 30 MHz; 0.25 mT	$\leq 600 \times 10^{-6}$	
ρ	DC, 25 °C	$\approx 10^5$	Ωm
T_C		≥ 400	°C
density		≈ 4200	kg/m^3

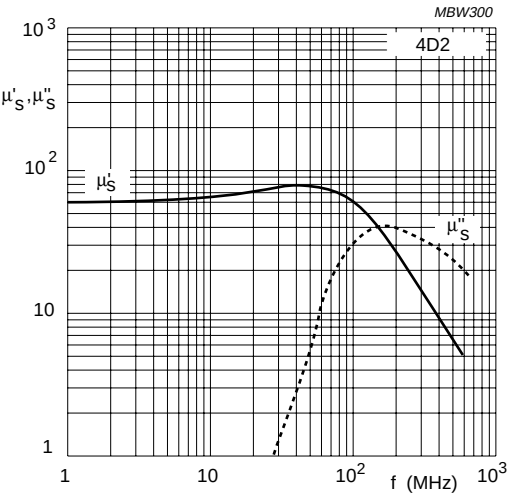


Fig.1 Complex permeability as a function of frequency.

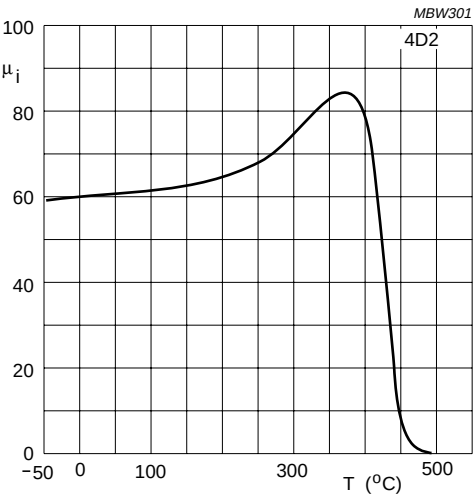


Fig.2 Initial permeability as a function of temperature.

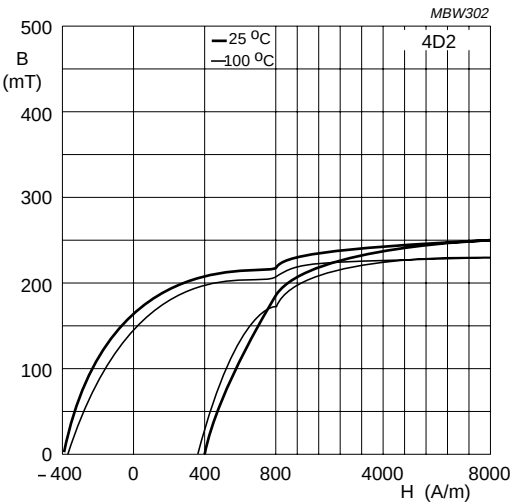


Fig.3 Typical B-H loops.

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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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Preferred		These products are recommended for use in current designs and are available via our sales channels.
Support		These products are not recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.