

DATA SHEET

4E1

Material specification

Supersedes data of February 2002

2004 Sep 01

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4E1 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	$15 \pm 20\%$	
B	25 °C; 10 kHz; 20 kA/m	≈ 220	mT
	100 °C; 10 kHz; 20 kA/m	≈ 210	
$\tan\delta/\mu_i$	25 °C; 10 MHz; 0.25 mT	$\leq 300 \times 10^{-6}$	
	25 °C; 30 MHz; 0.25 mT	$\leq 350 \times 10^{-6}$	
ρ	DC; 25 °C	$\approx 10^5$	Ωm
T_C		≥ 500	°C
density		≈ 3700	kg/m^3

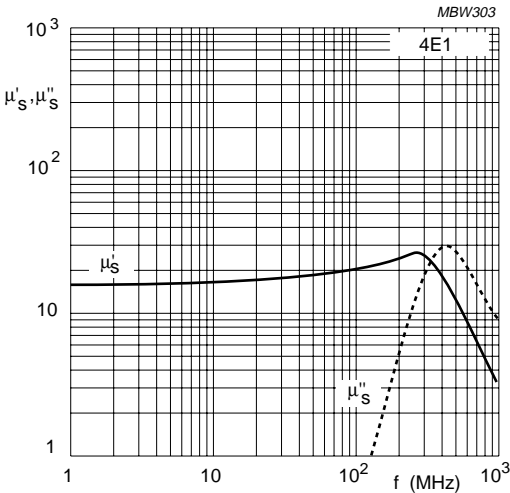


Fig.1 Complex permeability as a function of frequency.

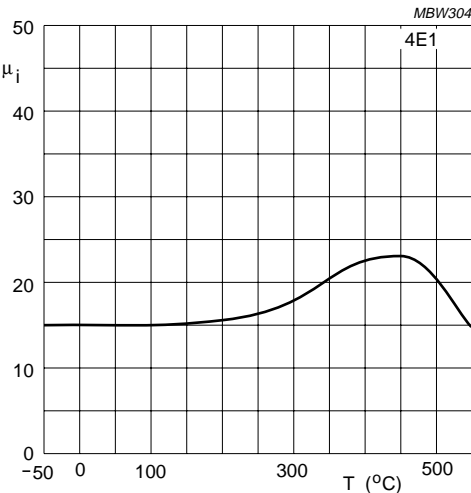


Fig.2 Initial permeability as a function of temperature.

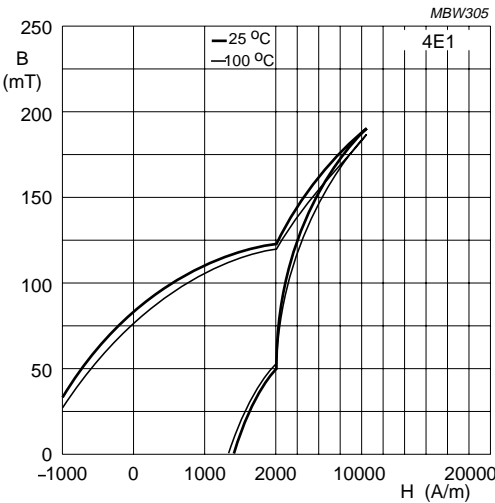


Fig.3 Typical B-H loops.

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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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