

# DATA SHEET

## 4D4

### Material specification

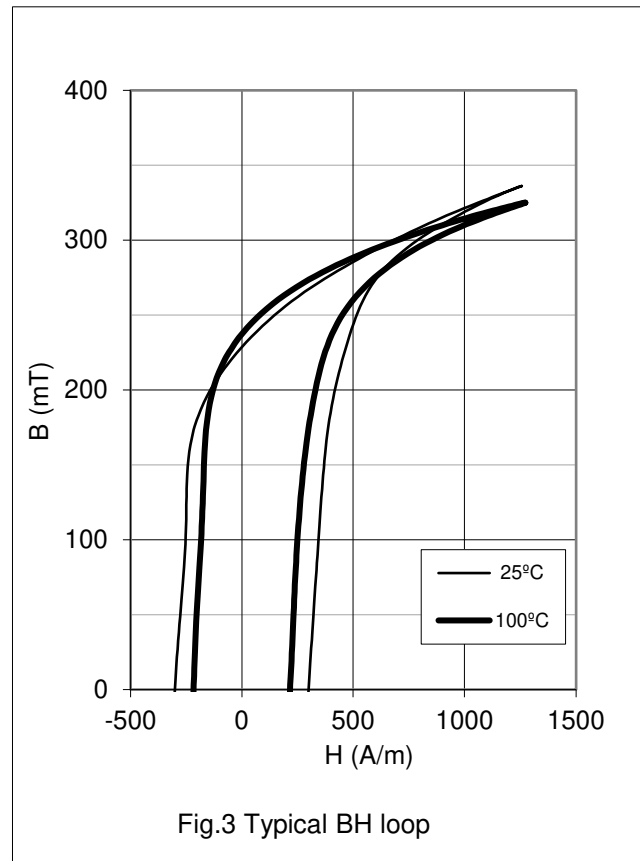
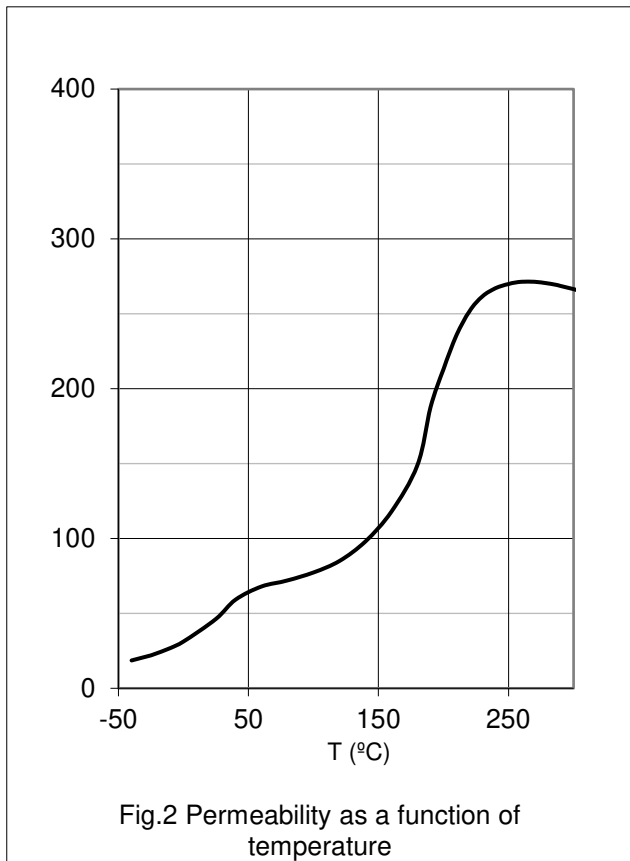
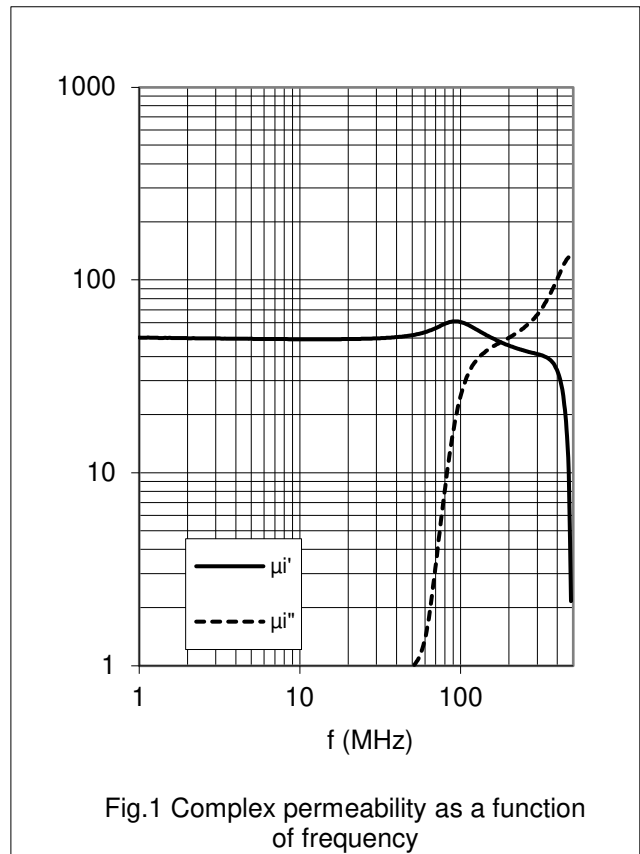
2024 May 12th

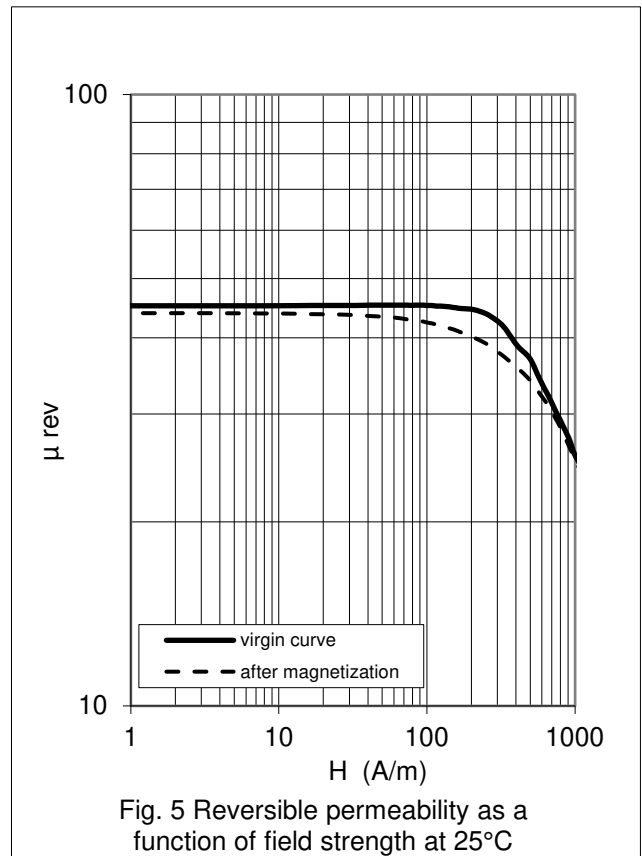
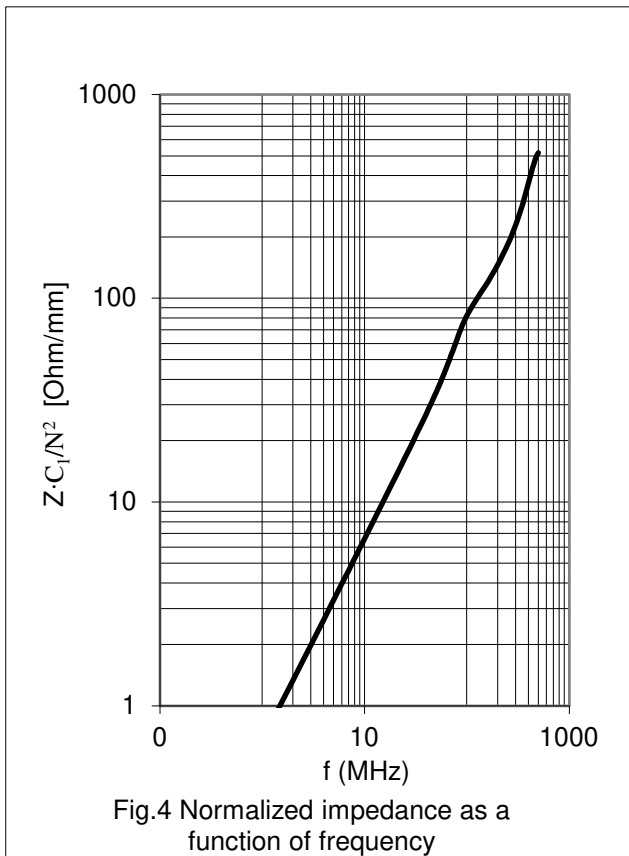
**4D4 SPECIFICATION**

Low permeability NiZn ferrite material for high-frequency applications.

SYMBOL	CONDITIONS	VALUE	UNIT
$\mu_i$	25°C; 10kHz; 0.25mT	$\approx 50$	-
	25°C; 10MHz; 0.25mT	$\approx 50$	-
B	25°C; 10kHz; 1200A/m	$\approx 340$	mT
	100°C; 10kHz; 1200A/m	$\approx 330$	mT
tand/ $\mu_i$	25°C; 0.1MHz; 0.25mT	$\approx 250$	$\times 10^{-6}$
	25°C; 10MHz; 0.25mT	$\approx 250$	
Z·C <sub>1</sub> /N <sup>2</sup>	25°C; 30MHz; 0.25mT	$\approx 24$	$\Omega / \text{m m}$
	25°C; 100MHz; 0.25mT	$\approx 66$	
$\rho_{DC}$	25°C	$\approx 10^5$	$\Omega \text{m}$
T <sub>c</sub>		$\geq 300$	°C
density		5200	$\text{kg} / \text{m}^3$

Typical parameters measured on T25/15/12








**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
<b>Prototype</b>		These are products that have been made as development samples for the purposes of technical evaluation only. The data for these types is provisional and is subject to change.
<b>Design-in</b>		These products are recommended for new designs.
<b>Preferred</b>		These products are recommended for use in current designs and are available via our sales channels.
<b>Support</b>		These products are <b>not</b> recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.