

# DATA SHEET

## **4C65** Material specification

Supersedes data of February 2002

2004 Sep 01

Material specification

4C65

4C65 SPECIFICATIONS

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

SYMBOL	CONDITIONS	VALUE	UNIT
$\mu_i$	25 °C; $\leq 10$ kHz; 0.25 mT	$125 \pm 20\%$	
B	25 °C; 10 kHz; 3000 A/m 100 °C; 10 kHz; 3000 A/m	$\approx 380$ $\approx 340$	mT
$\tan\delta/\mu_i$	25 °C; 3 MHz; 0.25 mT 25 °C; 10 MHz; 0.25 mT	$\leq 80 \times 10^{-6}$ $\leq 130 \times 10^{-6}$	
$\rho$	DC; 25 °C	$\approx 10^5$	$\Omega\text{m}$
$T_C$		$\geq 350$	°C
density		$\approx 4500$	$\text{kg/m}^3$

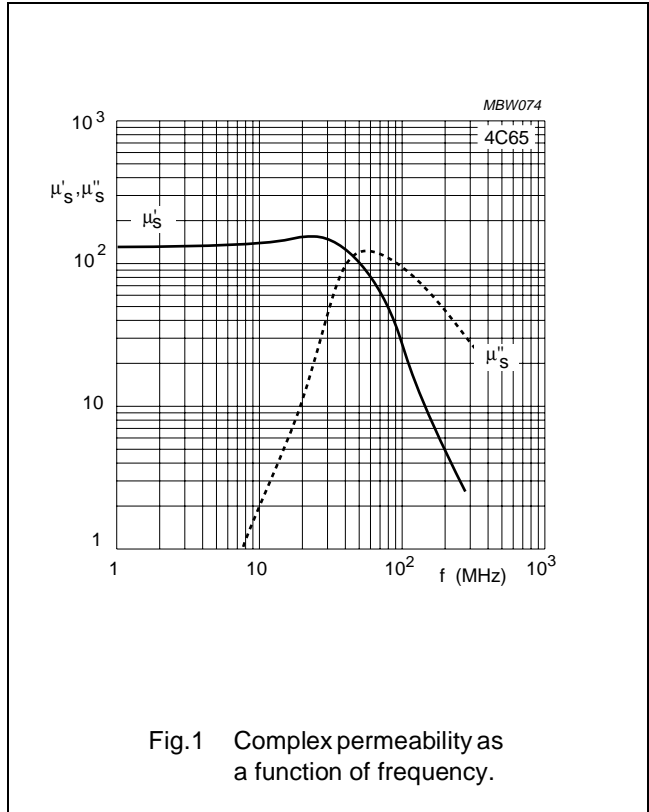


Fig.1 Complex permeability as a function of frequency.

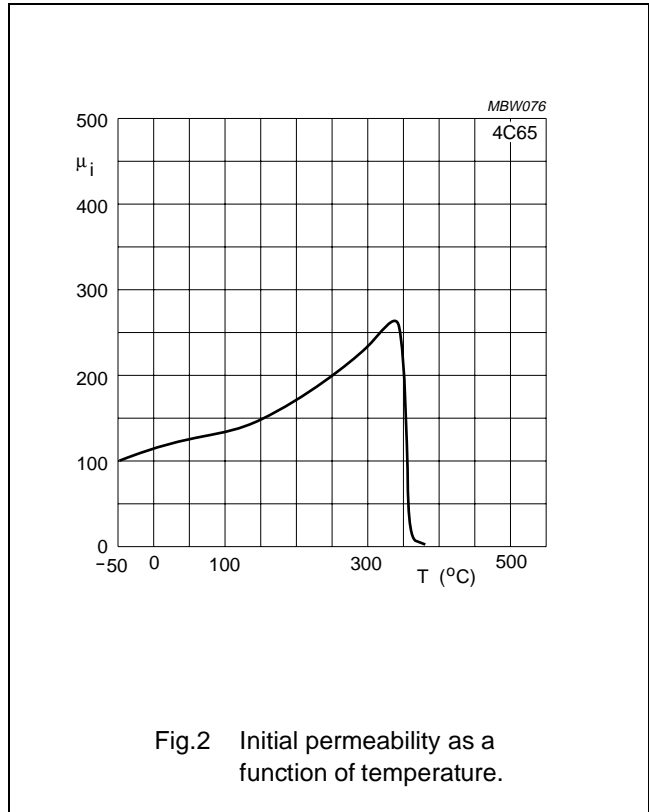


Fig.2 Initial permeability as a function of temperature.

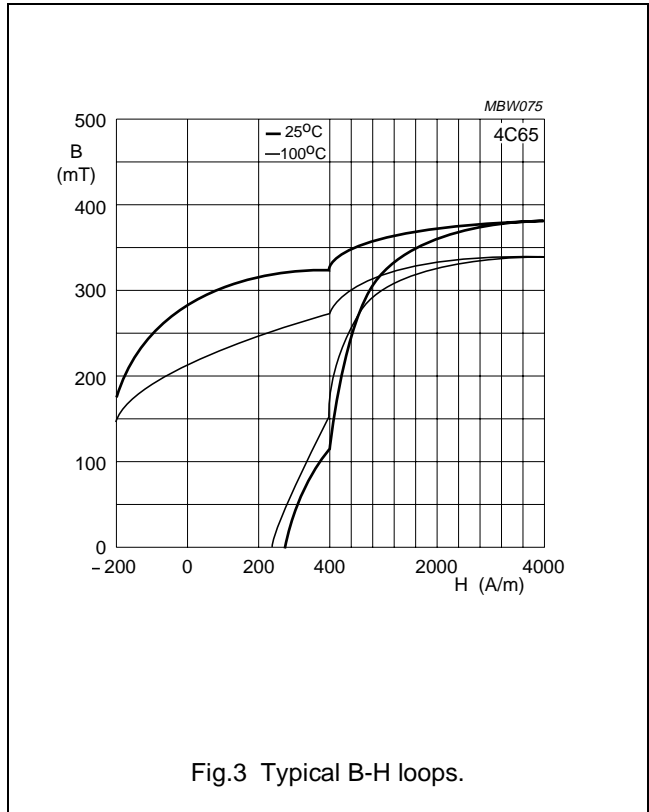
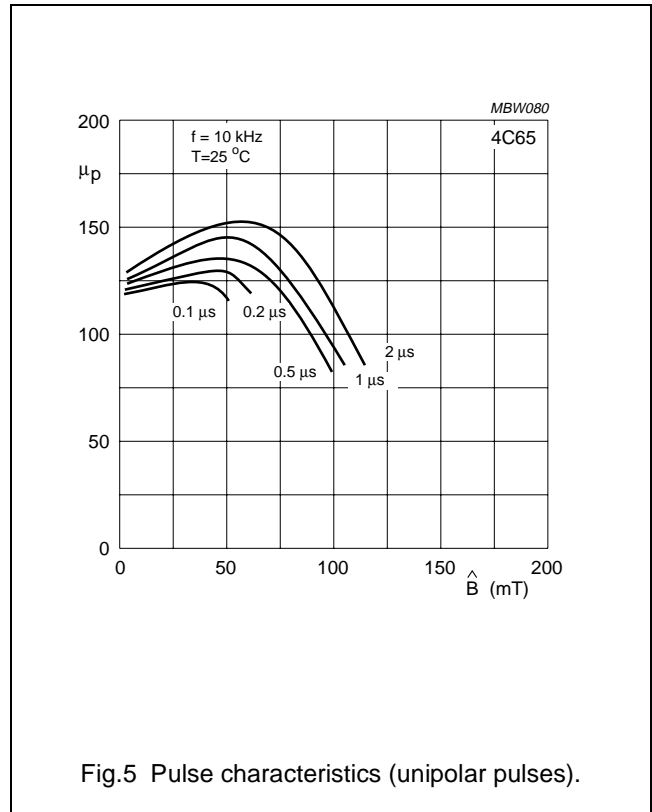
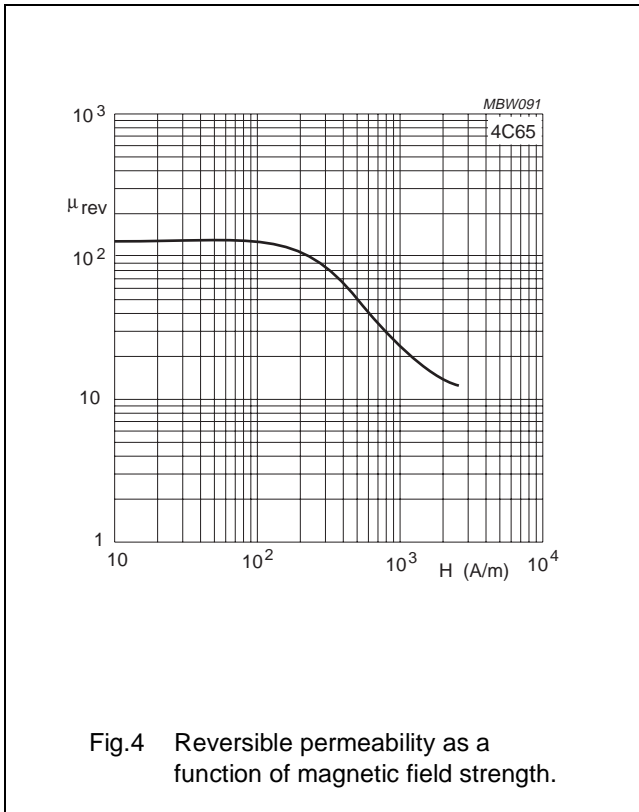


Fig.3 Typical B-H loops.






**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.
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