FERROXCUBE

DATA SHEET

3D3Material specification

Supersedes data of September 2004

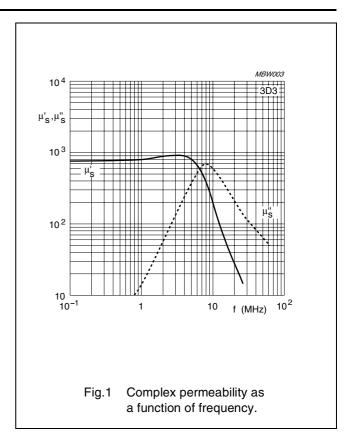
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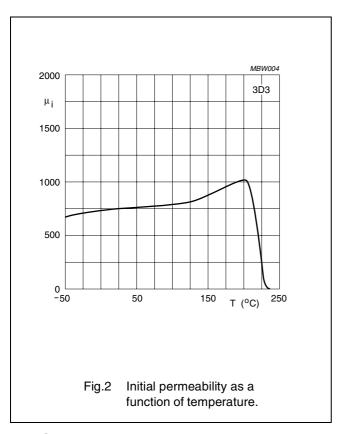


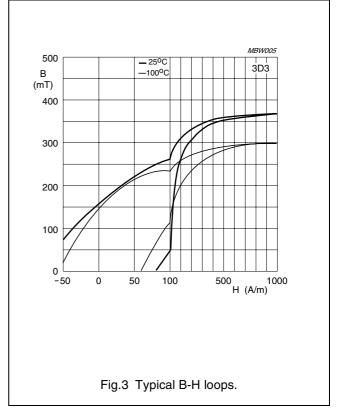
3D3 SPECIFICATIONS

A medium frequency filter and tuning material optimized for frequencies from 0.2 up to 2 MHz.

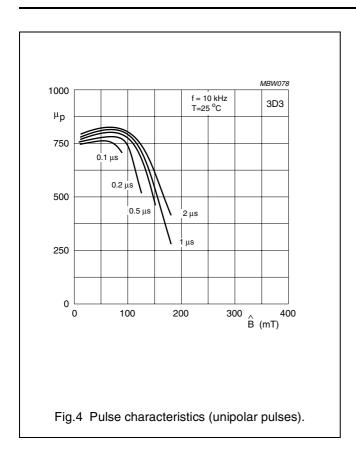
SYMBOL	CONDITIONS	VALUE	UNIT
μί	25 °C; ≤10 kHz; 0.25 mT	750 ±20%	
В	25 °C; 10 kHz; 1200 A/m	≈ 380	mT
	100 °C; 10 kHz; 1200 A/m	≈ 310	
tanδ/μ _i	25 °C; 300 kHz; 0.25 mT	≤ 10 × 10 ⁻⁶	
	25 °C; 1 MHz; 0.25 mT	≤ 30 × 10 ⁻⁶	
ηВ	25 °C; 100 kHz; 1.5 to 3 mT	≤ 1.8 × 10 ⁻³	T-1
D _F	25 °C; 10 kHz; 0.25 mT	≤ 12 × 10 ⁻⁶	
α_{F}	25 to 70 °C; ≤10 kHz; 0.25 mT	$(1.5 \pm 1) \times 10^{-6}$	K ⁻¹
ρ	DC; 25 °C	≈ 2	Ω m
T _C		≥200	°C
density		≈ 4700	kg/m ³







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Material specification

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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.

DISCLAIMER

Life support applications — These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Ferroxcube customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Ferroxcube for any damages resulting from such application.

PRODUCT STATUS DEFINITIONS

STATUS	INDICATION	DEFINITION	
Prototype	prot	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.	
Design-in	des	These products are recommended for new designs.	
Preferred		These products are recommended for use in current designs and are available via our sales channels.	
Support	sup	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.	

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