FERROXCUBE

DATA SHEET

3B46Material specification

Supersedes data of September 2004

2008 Sep 01

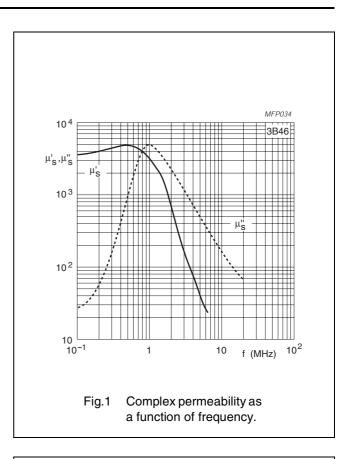


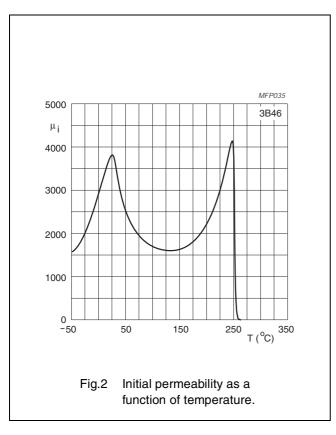
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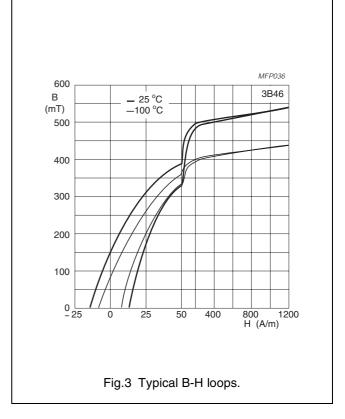
3B46 SPECIFICATIONS

A medium permeability material with high saturation flux density. This material is suitable as linear filter choke with dc bias current, over a broad temperature range. It has been specifically designed for use in POTS-splitters for DSL applications.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_{i}	25 °C; ≤10 kHz; 0.25 mT	3800 ± 20%	
В	25 °C;10 kHz; 1200 A/m	≈ 545	mT
	100 °C; 10 kHz; 1200 A/m	≈ 435	
tanδ/μ _i	25 °C; 10 kHz; 0.25 mT	$\approx 0.6 \times 10^{-6}$	
	25 °C; 100 kHz; 0.25 mT	$\approx 1.6 \times 10^{-6}$	
η_{B}	25 °C; 10 kHz; 1.5–3 mT	$\approx 0.12 \times 10^{-6}$	mT ⁻¹
α_{F}	≤10 kHz; 0.25 mT; 5 to 25 °C	≈ 4.4 × 10 ⁻⁶	K ⁻¹
	≤10 kHz; 0.25 mT; 25 to 55 °C	≈-2.2 × 10 ⁻⁶	K ⁻¹
ρ	DC; 25 °C	≈ 10	Ω m
T _C		≥ 255	°C
density		≈ 4800	kg/m ³

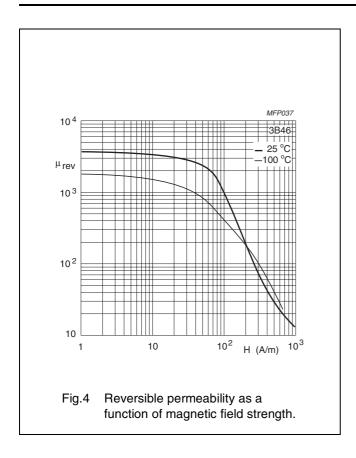






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DATA SHEET STATUS DEFINITIONS

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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