FERROXCUBE

DATA SHEET

3F36Material specification

2013 Jun 06

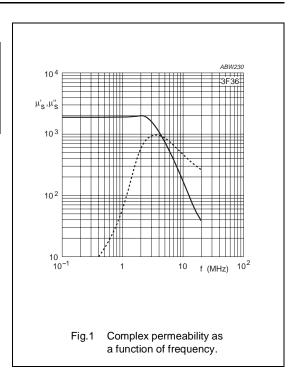


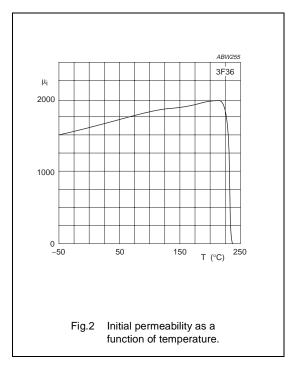
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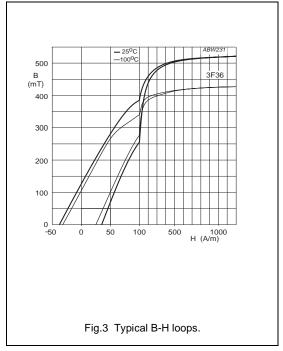
3F36 SPECIFICATIONS

A medium to high frequency power material for use in power and general purpose transformers at frequencies of 0.5 - 1 MHz. Low power losses from 25 to 100 °C. Especially suited for broad temperature range applications like automotive, lighting and mobile handheld.

	CONDITIONS	VALUE	UNIT
μ_{i}	25 °C; ≤10 kHz; 0.25 mT	1600 ± 20%	
μα	100 °C; 25 kHz; 200 mT	≈ 2400	
В	25 °C; 10 kHz; 1200 A/m	≈ 520	mT
	100 °C; 10 kHz;	≈ 420	
	1200 A/m		
P_{v}	100 °C; 500 kHz; 50 mT	≈ 90	kW/m ³
	25 °C; 500 kHz; 100 mT	≈ 700	
	100 °C; 500 kHz; 100 mT	≈ 700	
ρ	DC; 25 °C	≈ 12	Ωm
T _C		≥ 230	°C
density		≈ 4750	kg/m ³



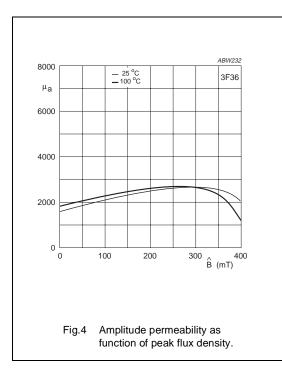


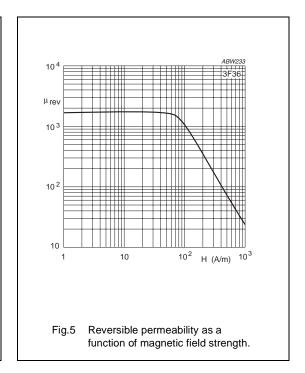


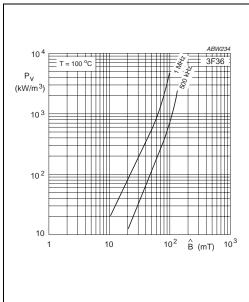
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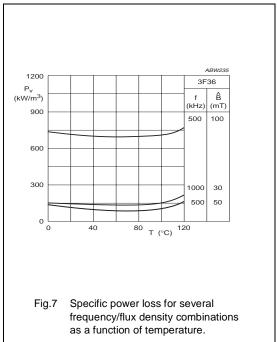
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Specific power loss as a function of peak

flux density with frequency as a parameter.

Fig.6

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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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