

DATA SHEET

3C93 Material specification

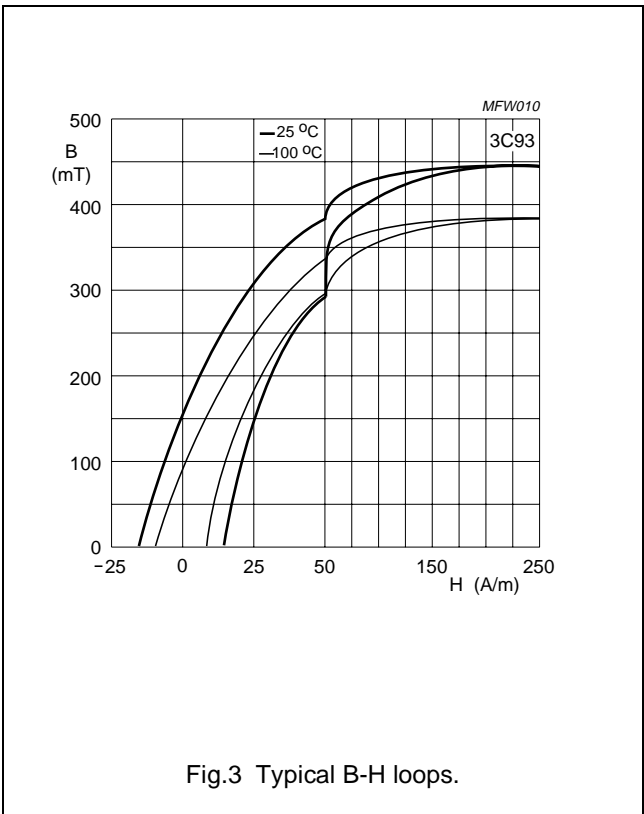
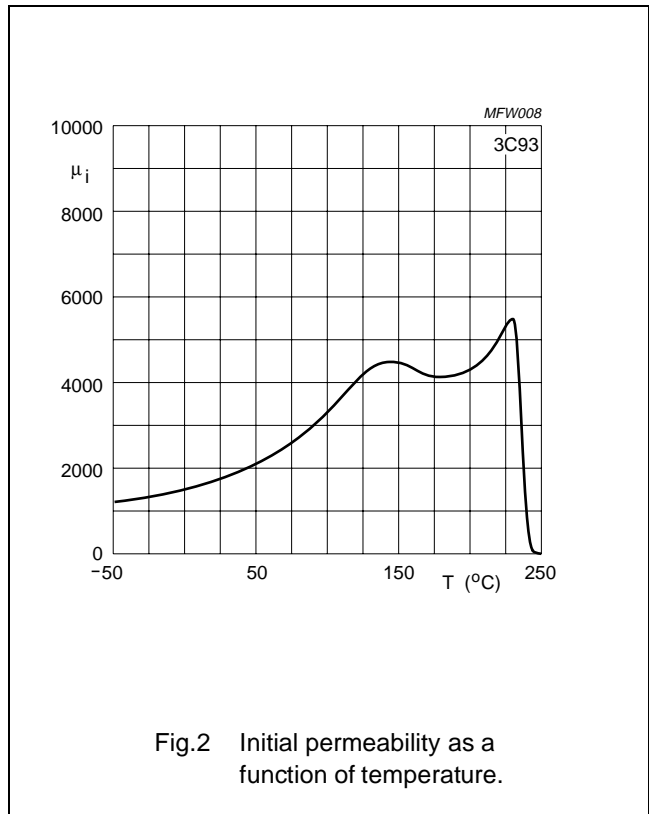
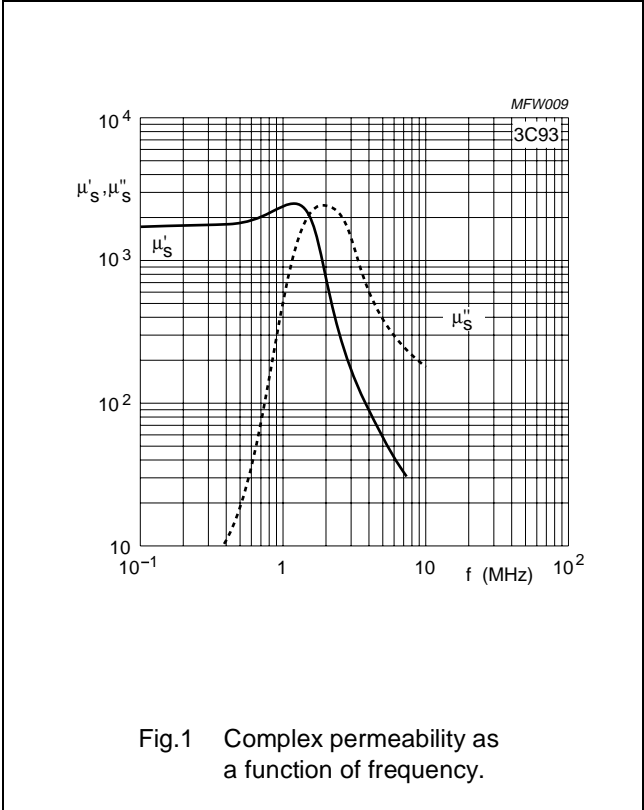
Supersedes data of February 2002

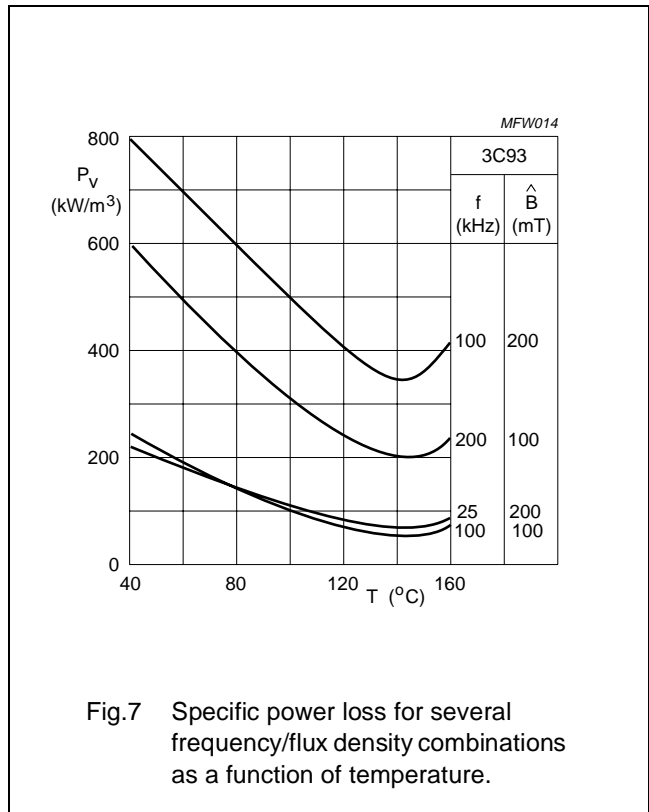
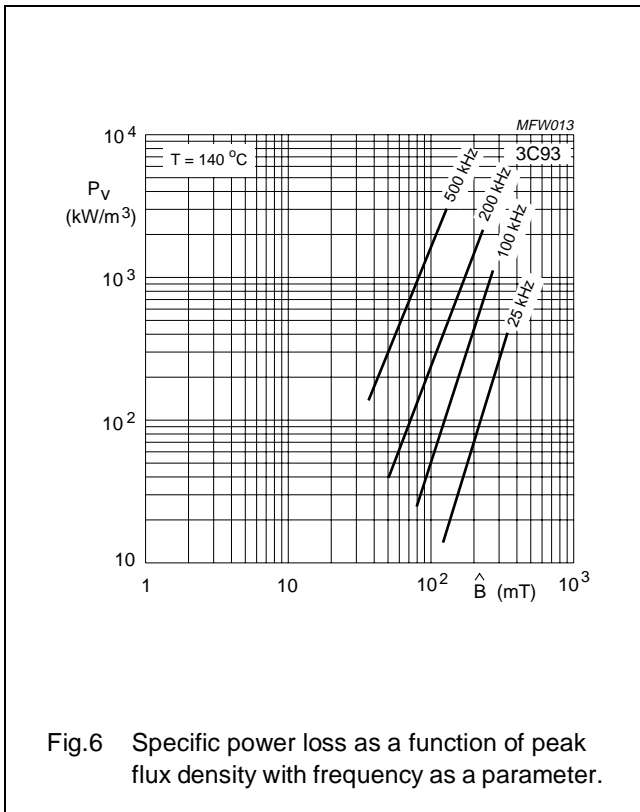
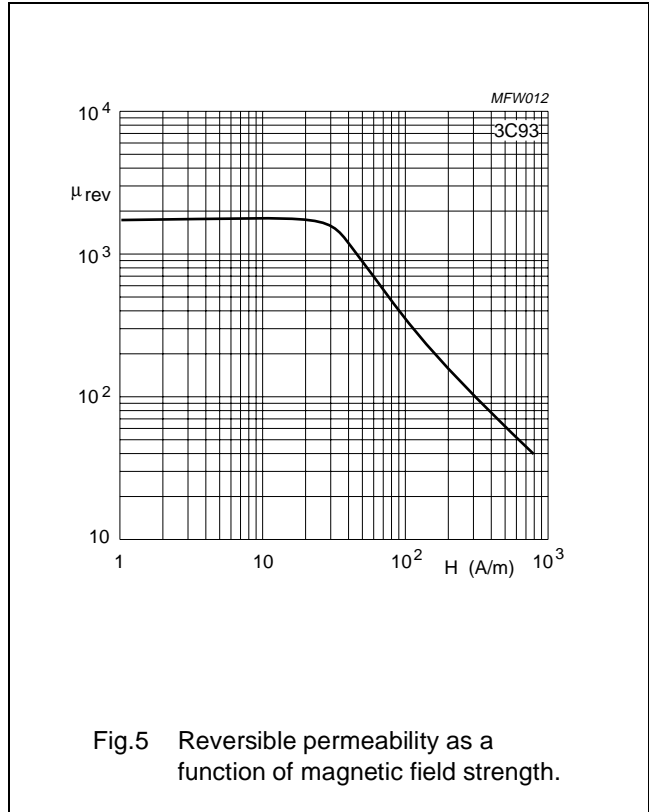
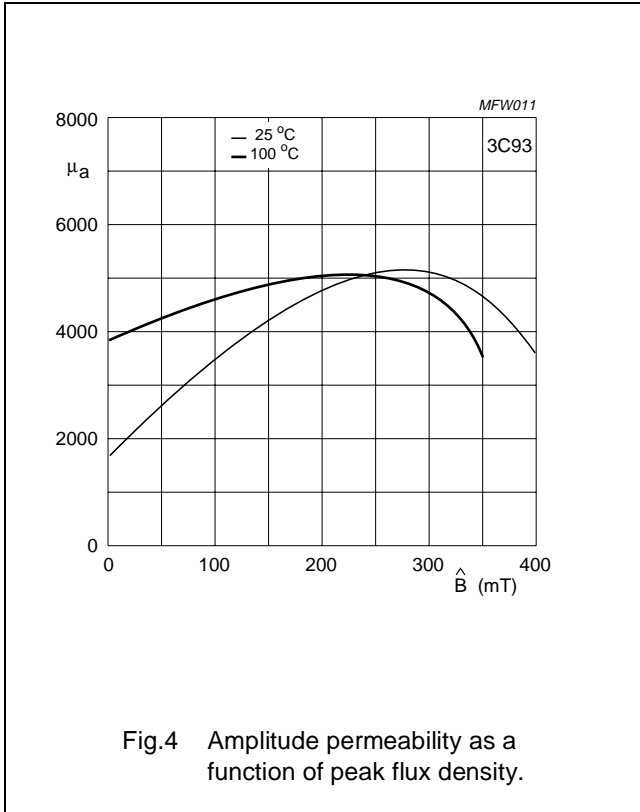
2004 Sep 01

3C93 SPECIFICATIONS

A low to medium frequency power material with minimum power losses around 140 °C for use in power transformers at frequencies up to 0.5 MHz.

	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.25 mT	1800 $\pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	≈ 5000	
B	25 °C; 10 kHz; 1200 A/m	≈ 520	mT
	100 °C; 10 kHz; 1200 A/m	≈ 430	
	140 °C; 10 kHz; 1200 A/m	≈ 360	
P _V	140 °C; 100 kHz; 100 mT	≈ 50	kW/m ³
	140 °C; 100 kHz; 200 mT	≈ 350	
	140 °C; 500 kHz; 50 mT	≈ 300	
ρ	DC; 25 °C	≈ 5	Ωm
T _C		≥ 240	°C
density		≈ 4800	kg/m ³








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
Prototype		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		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		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.