

DATA SHEET

3F4

Material grade specification

Supersedes data of November 2000

2001 Jan 20

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3F4 SPECIFICATIONS

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.1 mT	900 $\pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	≈ 1700	
B	25 °C; 10 kHz; 250 A/m	≥ 350	mT
	100 °C; 10 kHz; 250 A/m	≥ 300	
P _V	100 °C; 1 MHz; 30 mT	≤ 200	kW/m ³
	100 °C; 3 MHz; 10 mT	≤ 320	
ρ	DC; 25 °C	≈ 10	Ωm
T _C		≥ 220	°C
density		≈ 4700	kg/m ³

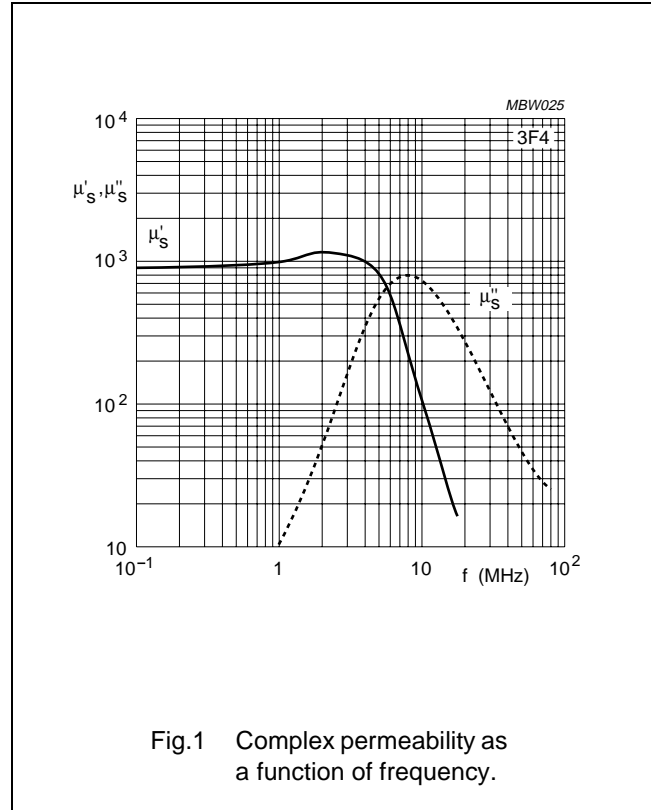


Fig.1 Complex permeability as a function of frequency.

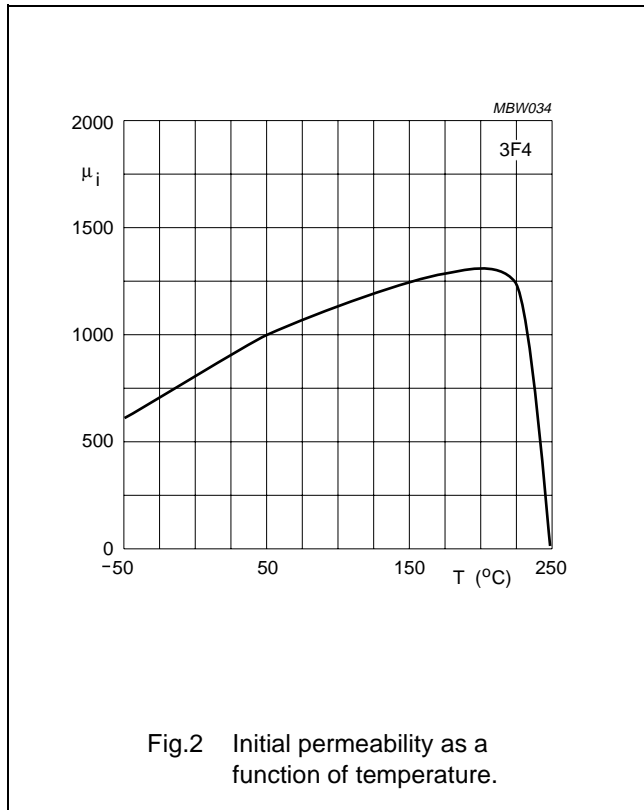


Fig.2 Initial permeability as a function of temperature.

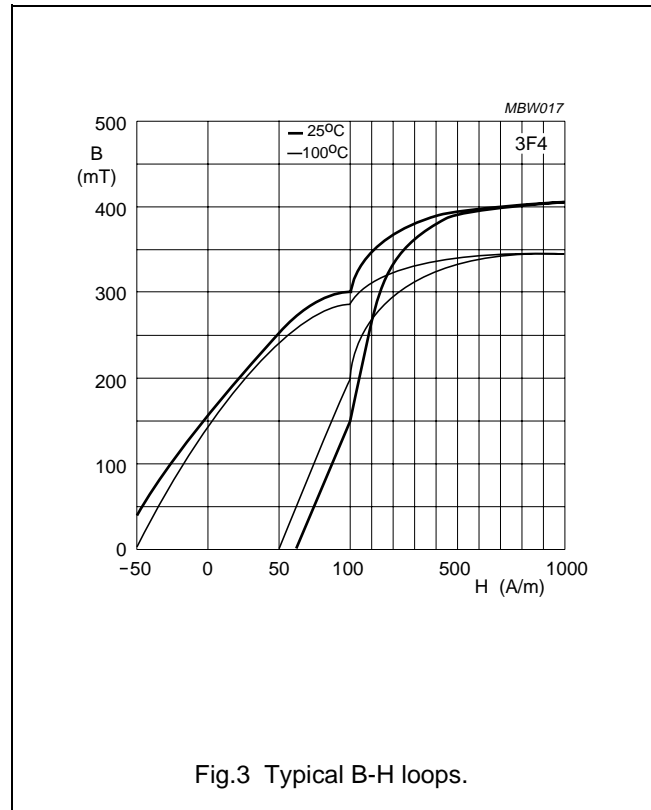
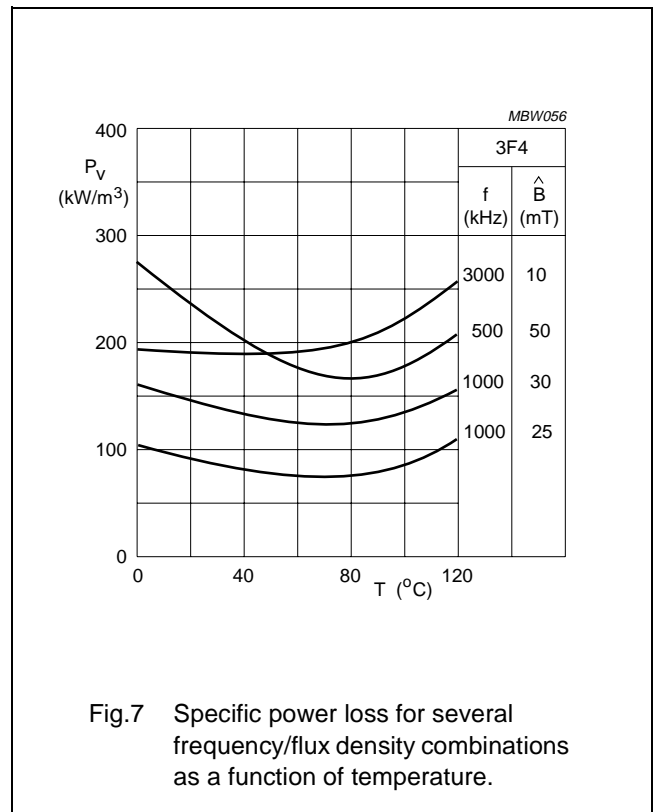
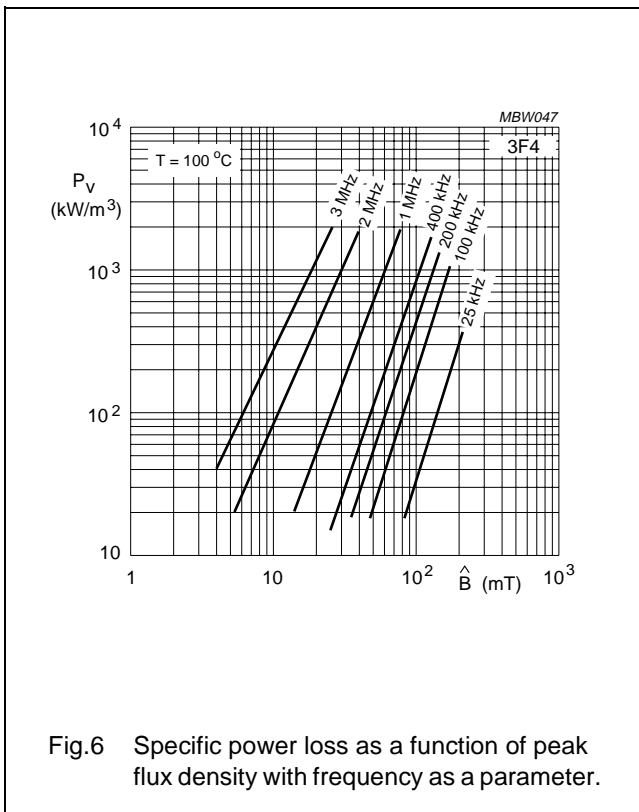
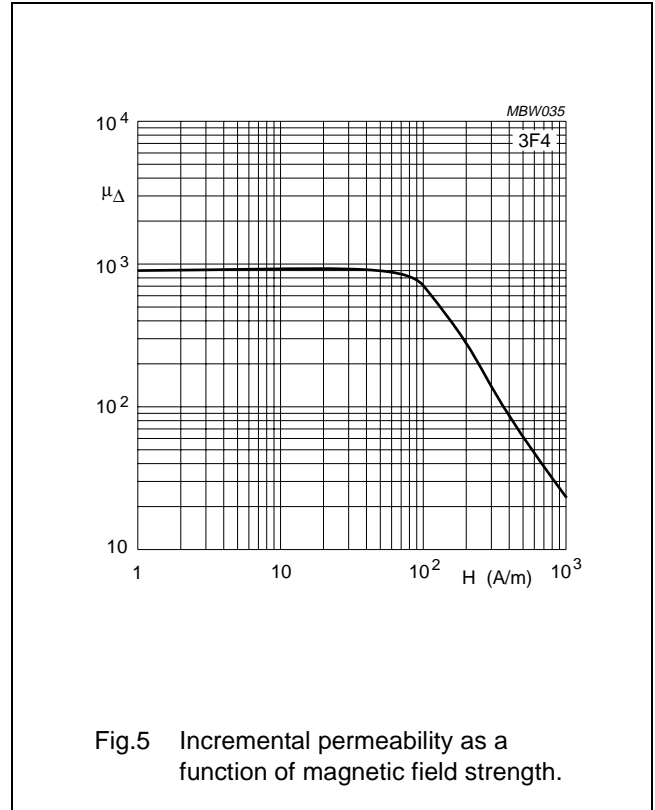
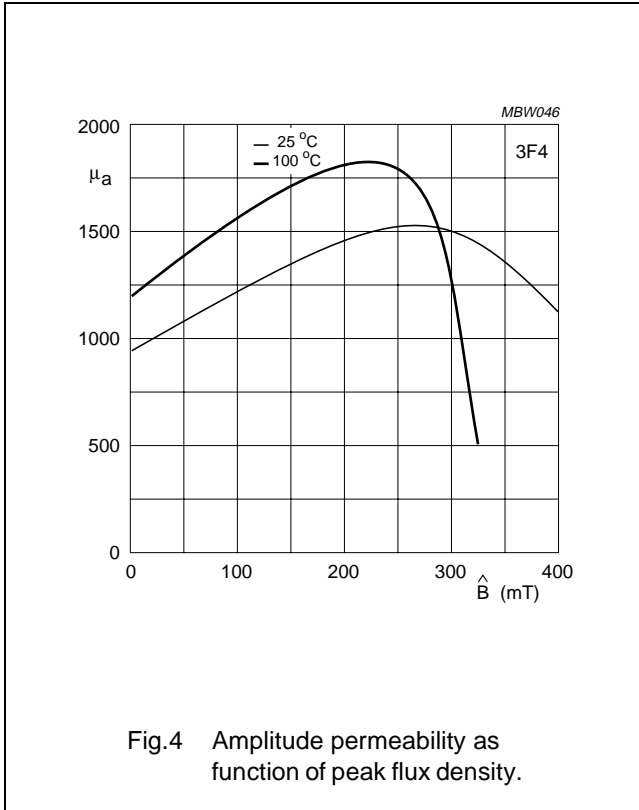


Fig.3 Typical B-H loops.



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DATA SHEET STATUS DEFINITIONS

DATA SHEET STATUS	PRODUCT STATUS	DEFINITIONS
Preliminary specification	Development	This data sheet contains preliminary data. Philips Components 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. Philips Components 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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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.