

# DATA SHEET

**3C81**

**Material grade specification**

Supersedes data of November 1997  
File under Ferrite Ceramics, MA01

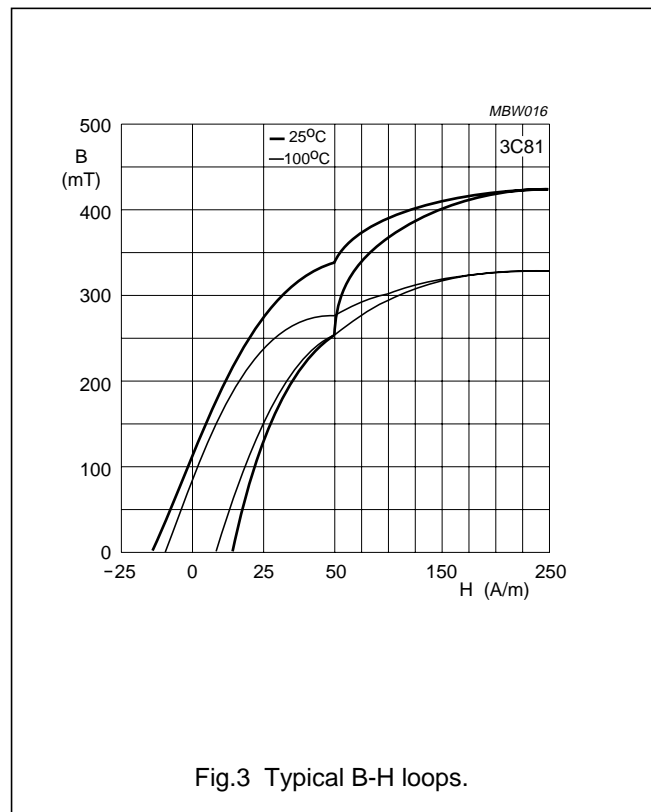
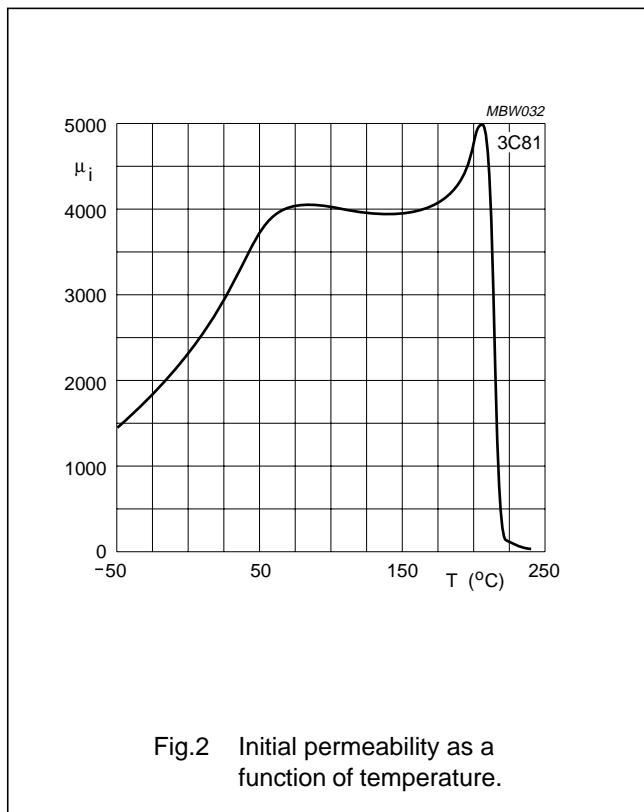
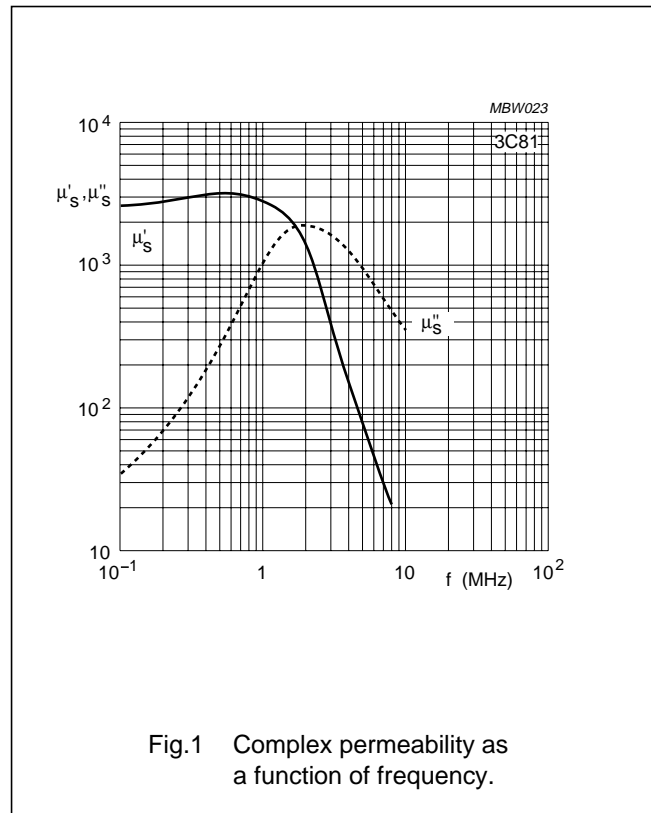
2000 Apr 20

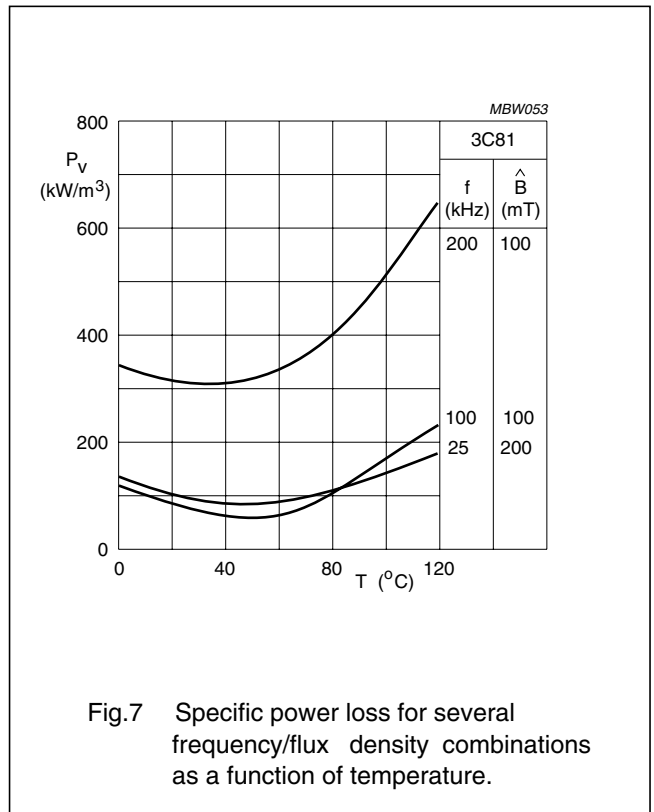
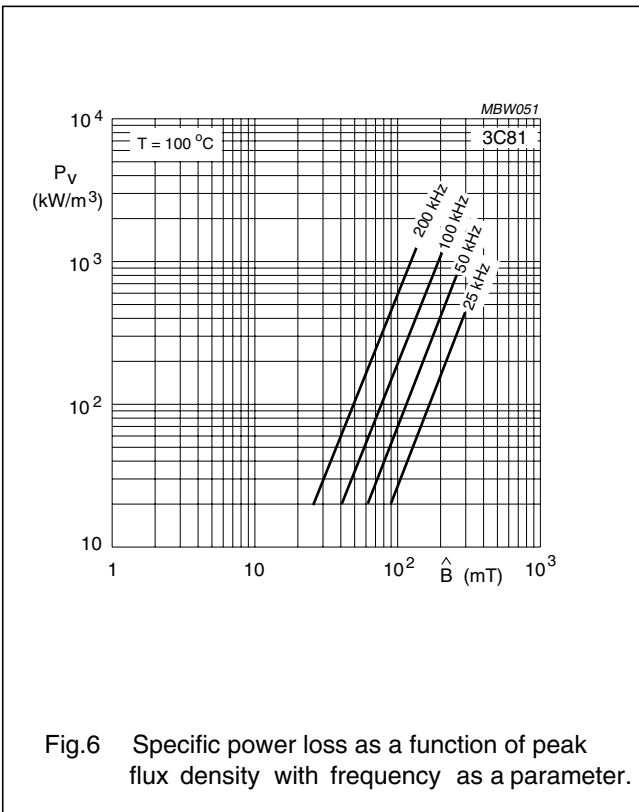
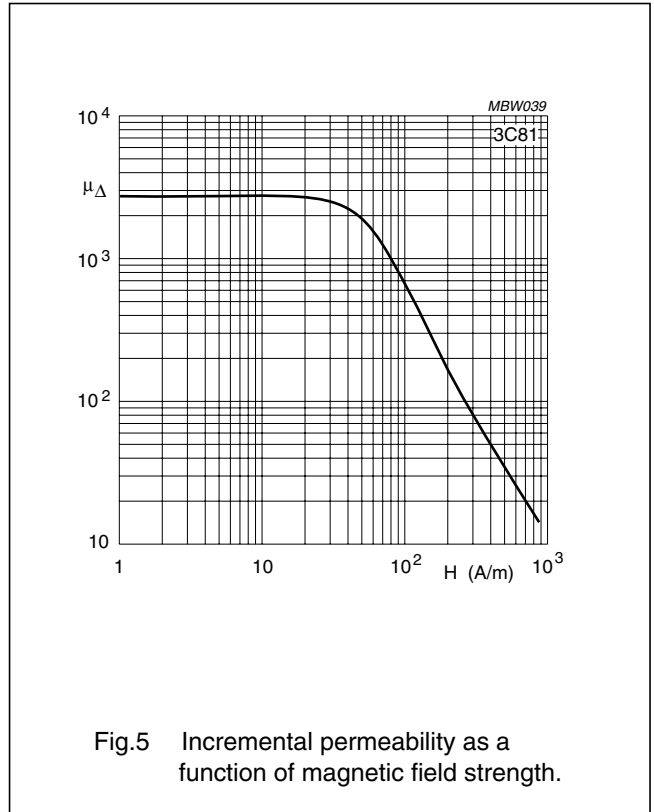
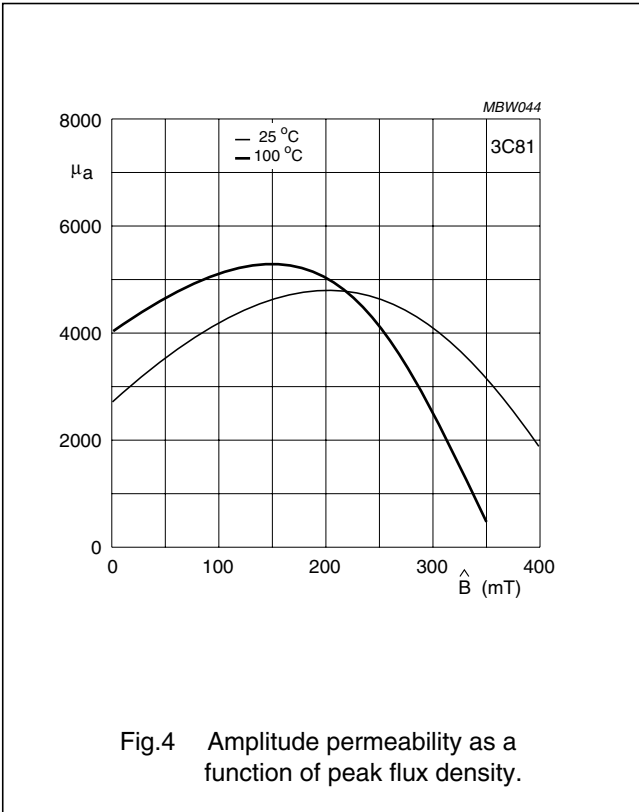
Material grade specification

3C81

OA3C81 SPECIFICATIONS

SYMBOL	CONDITIONS	VALUE	UNIT
$\mu_i$	25 °C; $\leq 10$ kHz; 0.1 mT	$2700 \pm 20\%$	
$\mu_a$	100 °C; 25 kHz; 200 mT	$5500 \pm 20\%$	
B	25 °C; 10 kHz; 250 A/m 100 °C; 10 kHz; 250 A/m	$\approx 420$ $\approx 330$	mT
$P_V$	100 °C; 25 kHz; 200 mT	$\leq 185$	kW/m <sup>3</sup>
$\rho$	DC; 25 °C	$\approx 1$	$\Omega m$
$T_C$		$\geq 210$	°C
density		$\approx 4800$	kg/m <sup>3</sup>





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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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## PRODUCT STATUS DEFINITIONS

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<b>Support</b>		These products are <b>not</b> recommended for new designs and may not be available through all of our sales channels. Customers are advised to check for availability.