

DATA SHEET

3C90

Material grade specification

Supersedes data of November 1997
File under Ferrite Ceramics, MA01

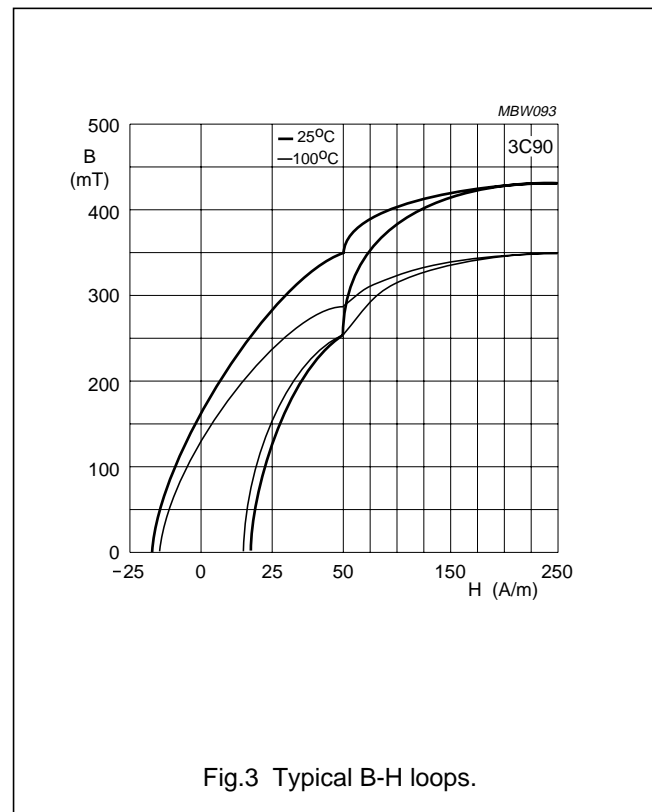
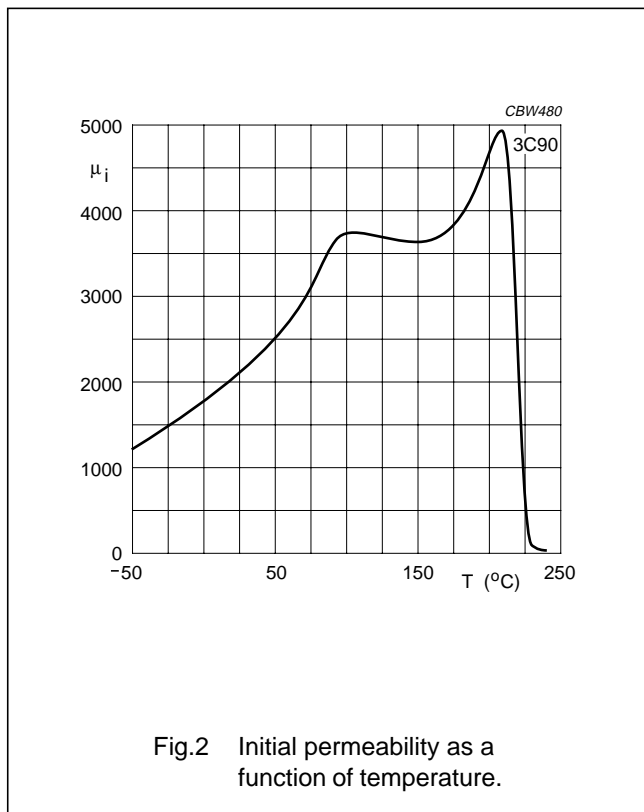
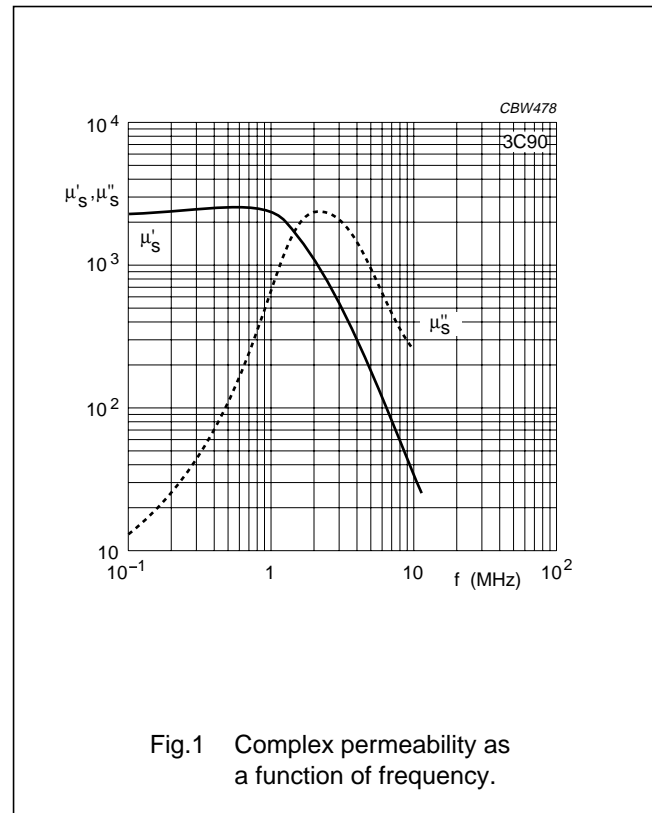
2000 Apr 20

Material grade specification

3C90

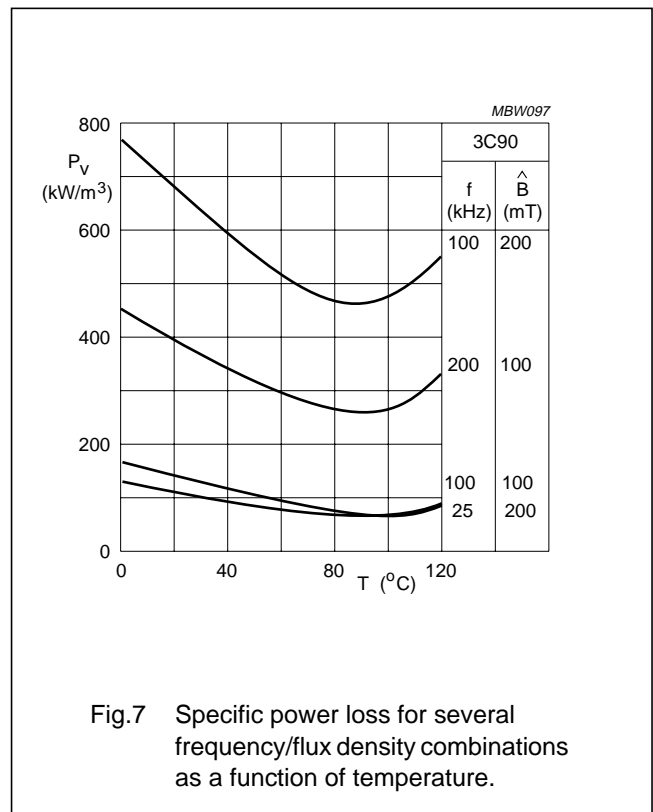
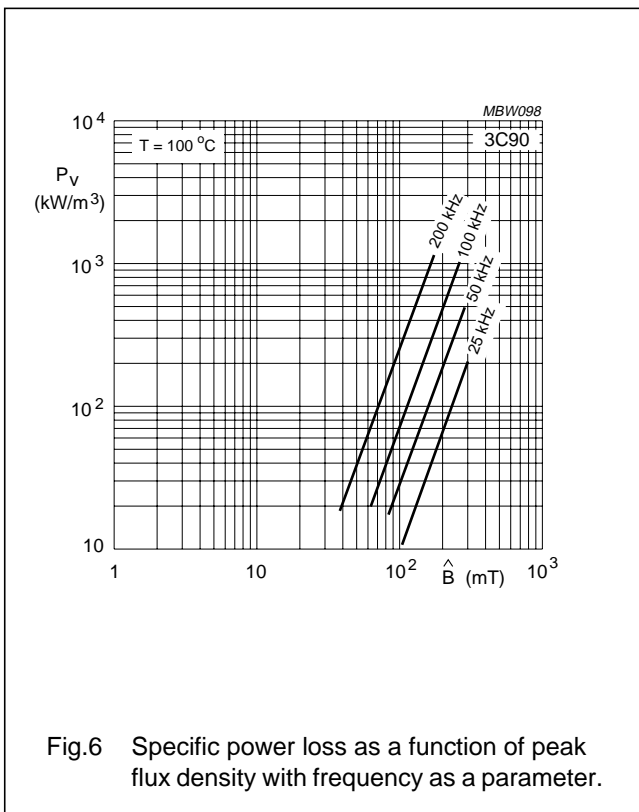
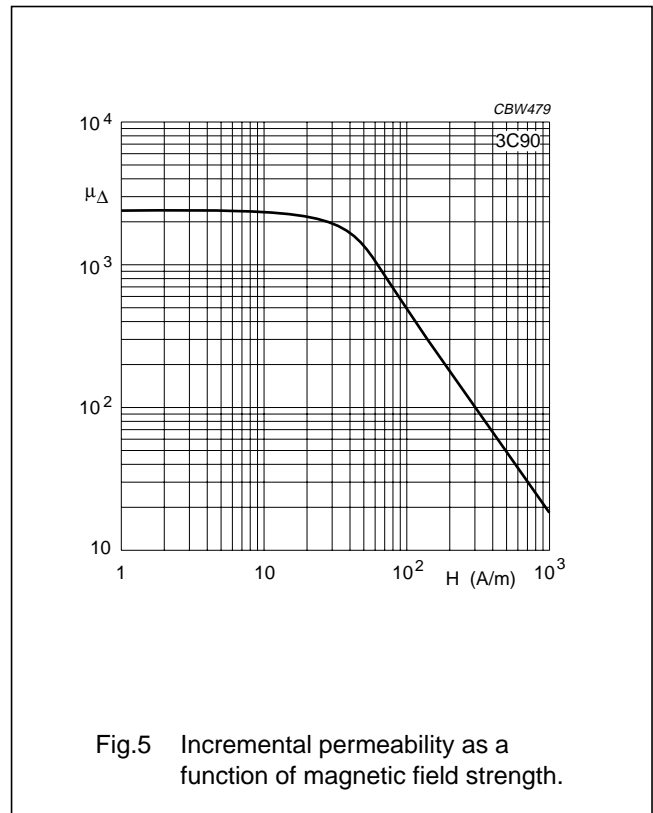
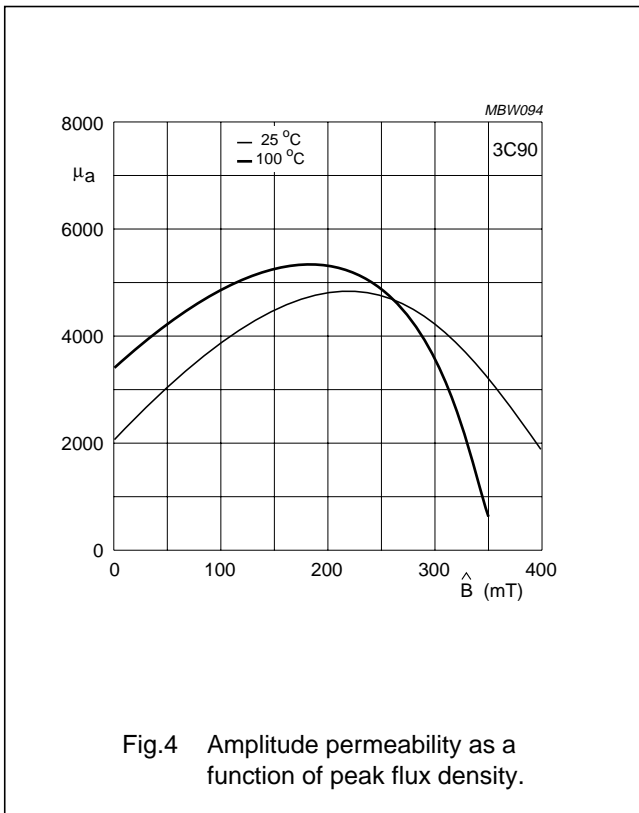
.3C90 SPECIFICATIONS

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25 °C; ≤ 10 kHz; 0.1 mT	$2300 \pm 20\%$	
μ_a	100 °C; 25 kHz; 200 mT	$5500 \pm 25\%$	
B	25 °C; 10 kHz; 250 A/m	≥ 430	mT
	100 °C; 10 kHz; 250 A/m	≥ 340	mT
P_v	100 °C; 25 kHz; 200 mT	≤ 80	kW/m ³
	100 °C; 100 kHz; 100 mT	≤ 80	
	100 °C; 100 kHz; 200 mT	≈ 450	
ρ	DC, 25 °C	≈ 5	Ωm
T_c		≥ 220	°C
density		≈ 4800	kg/m ³



Material grade specification

3C90



Material grade specification

3C90




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.

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. Philips Components customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Philips Components for any damages resulting from such application.

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.