

DATA SHEET

3C92

Material specification

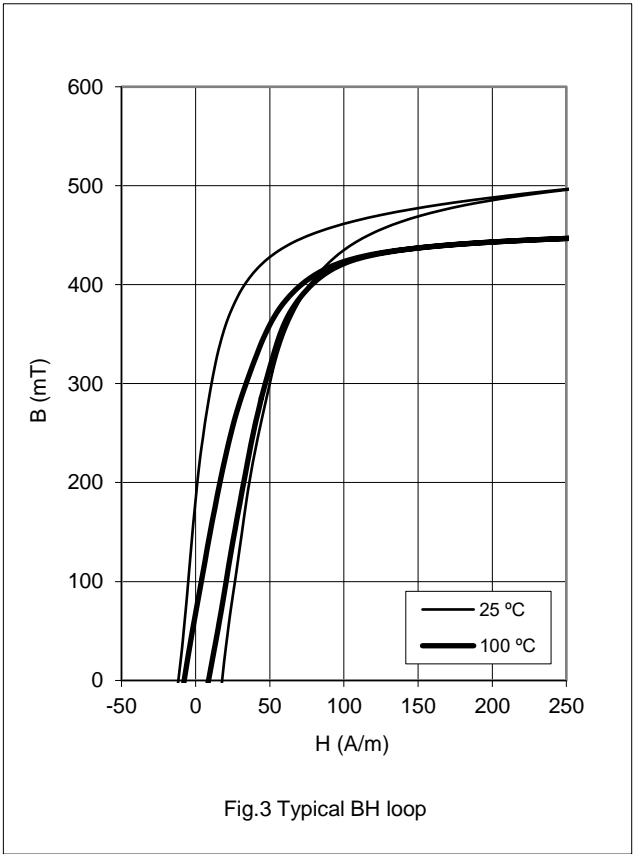
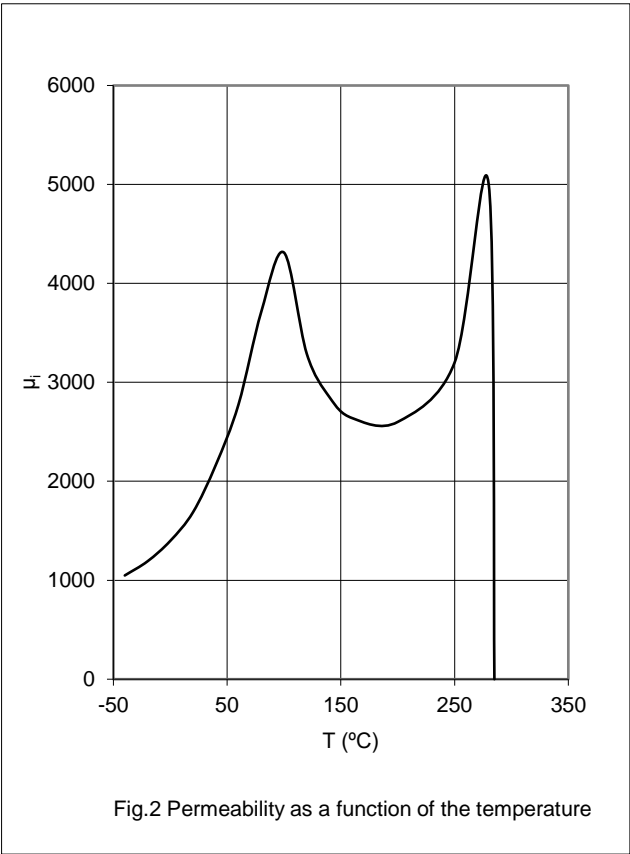
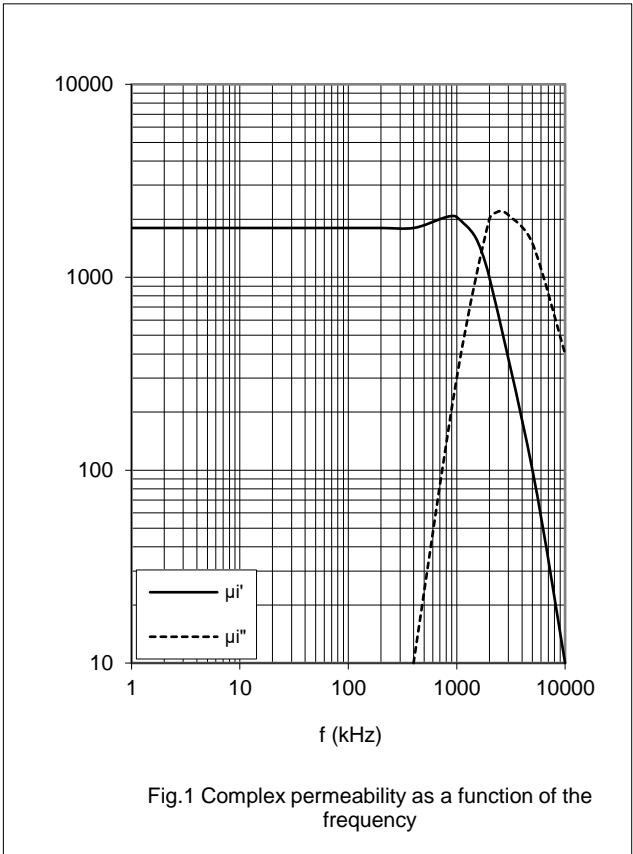
2022 April 15



3C92 SPECIFICATION

A low to medium frequency power material with high saturation, dedicated for application with high dc current like output chokes, power inverters, DC-DC converters.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25°C; 10kHz; 0.25mT	1800 ± 25%	
μ_a	100°C; 25kHz; 200mT	≈ 5500	
B	25°C; 10kHz; 1200A/m	≈ 540	mT
	100°C; 10kHz; 1200A/m	≈ 460	
	140°C; 10kHz; 1200A/m	≈ 400	
Pv	100°C; 100kHz; 200mT	≈ 300	k W / m ³
ρ_{DC}	25°C	≈ 5	Ωm
Tc		≥ 270	°C
density		≈ 4800	k g / m ³



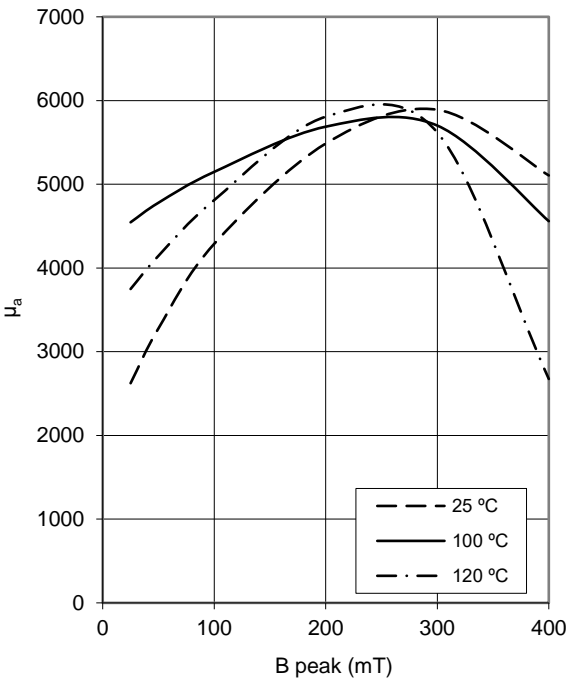


Fig.4 Amplitude permeability

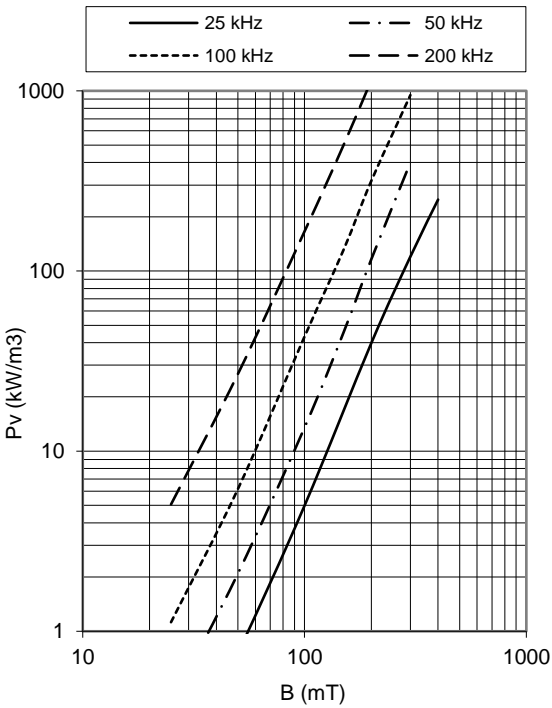


Fig. 5 Power loss as a function of the peak flux density at 100 °C

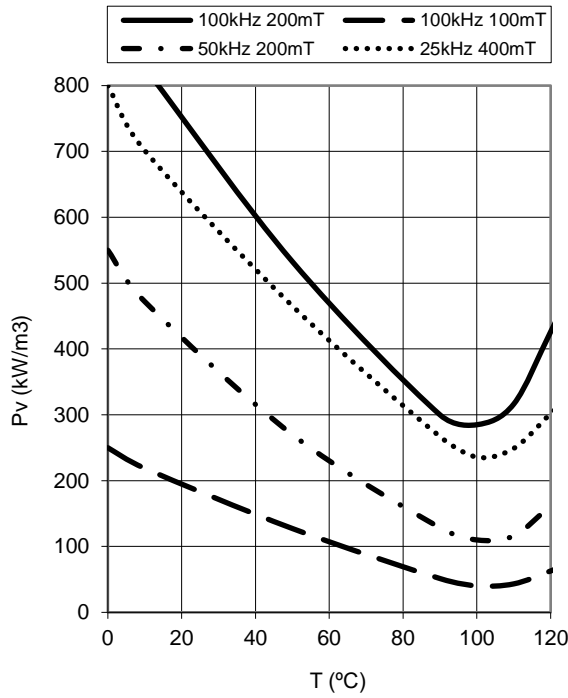


Fig.6 Power loss as a function of the temperature