

DATA SHEET

3N5

Draft material specification

2020 April 27th

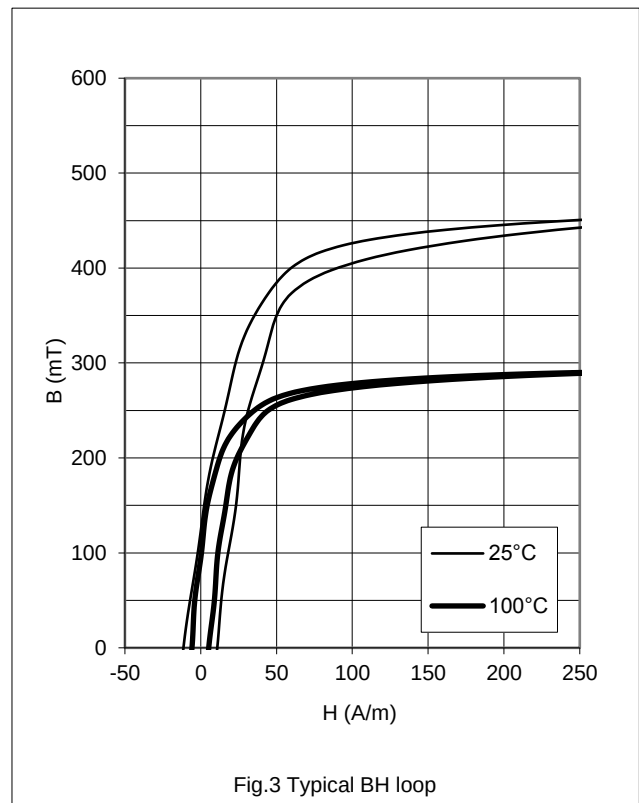
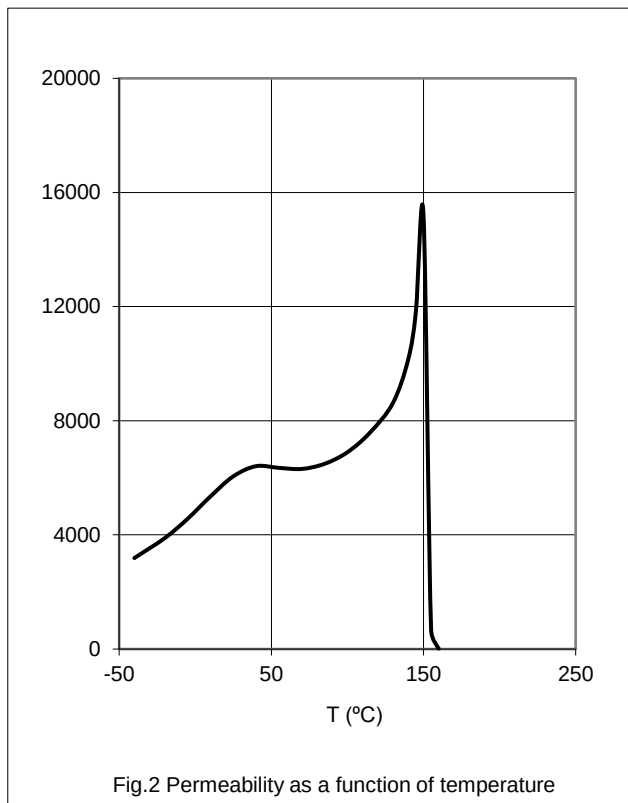
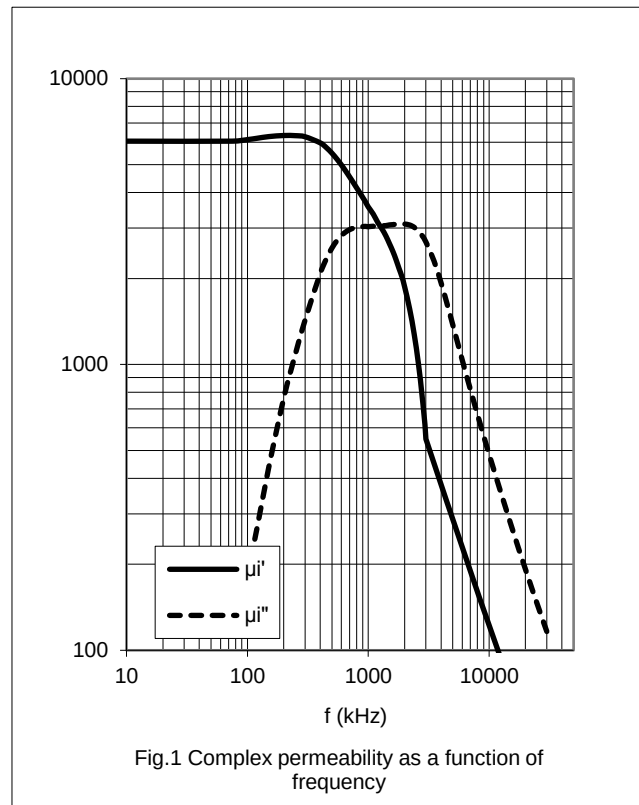


3N5 SPECIFICATION

An EMI-suppression material for conducted emissions up to 30 MHz with a maximum impedance in the frequency range 0.5 to 3 MHz.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25°C; 10kHz; 0.25mT	≈ 6000	
B	25°C; 10kHz; 1200A/m	≈ 460	mT
	100°C; 10kHz; 1200A/m	≈ 300	
Z_{C_1} / N^2	25°C; 1MHz; 0.25mT	≈ 22	Ω/mm
	25°C; 3MHz; 0.25mT	≈ 41	
ρ_{DC}	25°C	≈ 0.5	Ωm
T_c		≥ 150	°C
density		≈ 4850	kg / m^3

Measured on T14/9/5



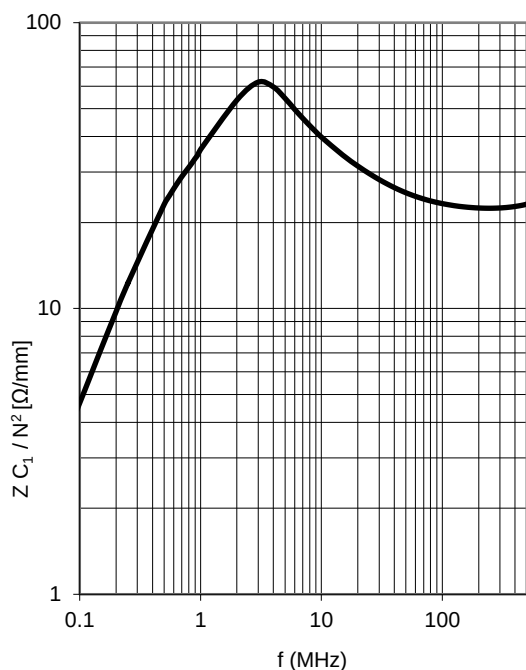


Fig.4 Normalized impedance as a function of frequency

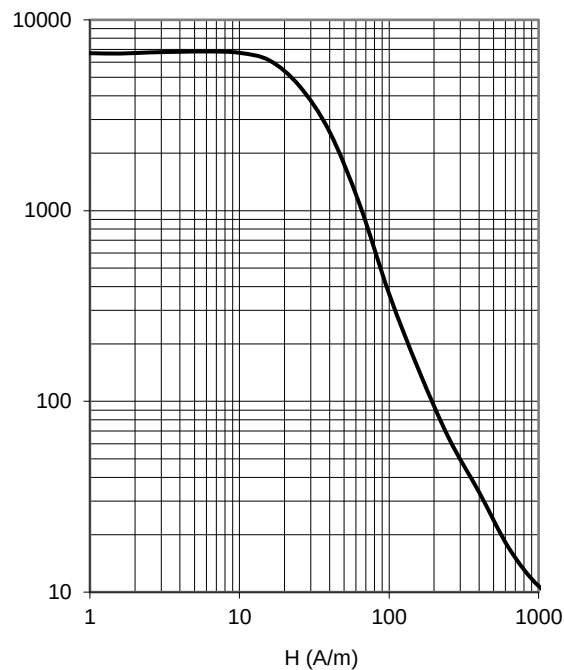


Fig.5 Reversible permeability as a function of magnetic field strength.