

DATA SHEET

3N2

Material specification

2023 June 23rd



3N2 SPECIFICATION

An EMI-suppression material for conducted and radiated emissions up to 300 MHz with a maximum impedance in the frequency range of 0.1 to 100 MHz.

SYMBOL	CONDITIONS	VALUE	UNIT
μ_i	25°C; 10kHz; 0.25mT	≈ 3000	
$\mu_{i\text{remanence}}$	25°C; 10kHz; 0.25mT	≈ 3000	
B	25°C; 10kHz; 1200A/m	≈ 410	mT
	100°C; 10kHz; 1200A/m	≈ 260	
Z_{C_1/N^2}	25°C; 3MHz; 0.25mT	≈ 35	Ω/mm
	25°C; 30MHz; 0.25mT	≈ 61	
	25°C; 100MHz; 0.25mT	≈ 71	
ρ_{DC}	25°C	$\approx 10^3$	Ωm
Tc		≥ 150	°C
density		≈ 4800	kg/m^3

Measured on T14/9/5

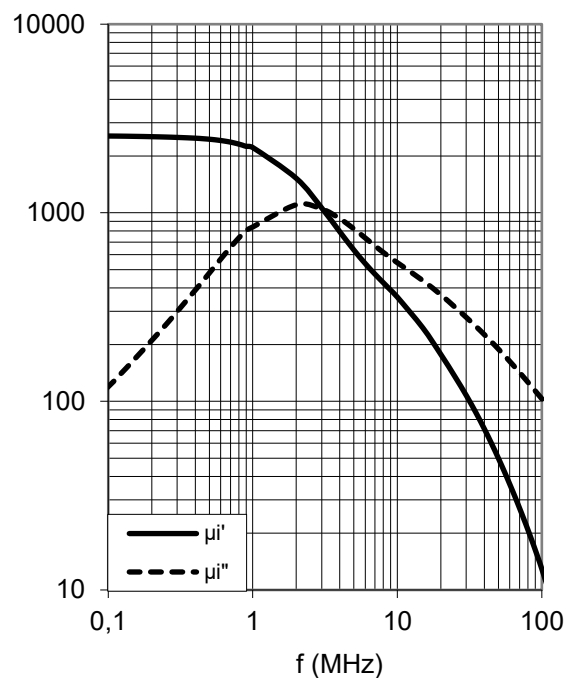


Fig.1 Complex permeability as a function of frequency

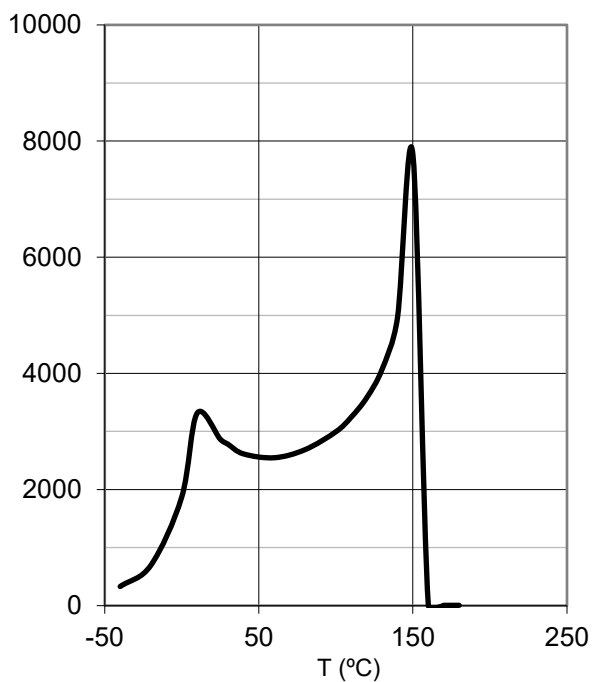


Fig.2 Permeability as a function of temperature

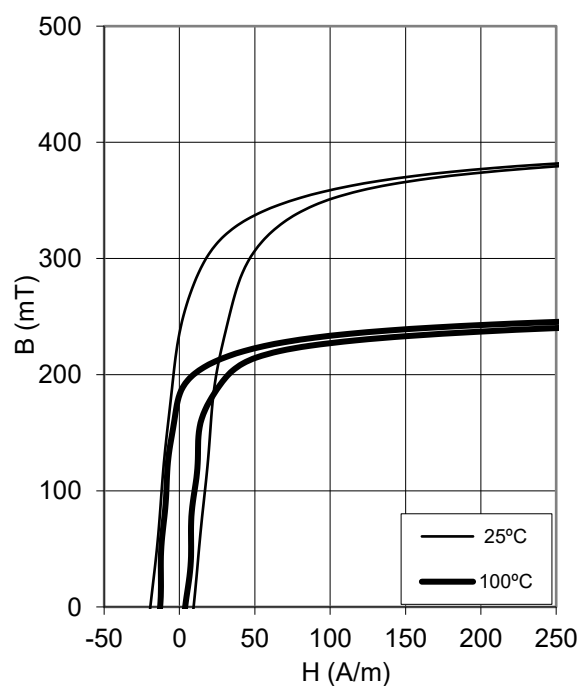


Fig.3 Typical BH loop

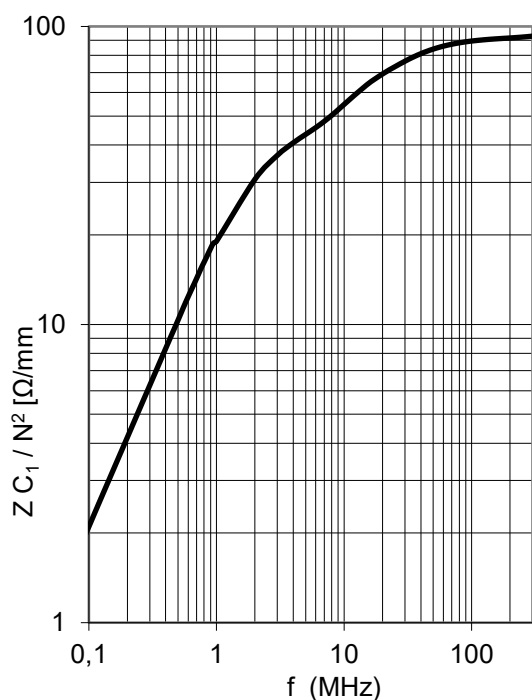


Fig.4 Normalized impedance as a function of frequency

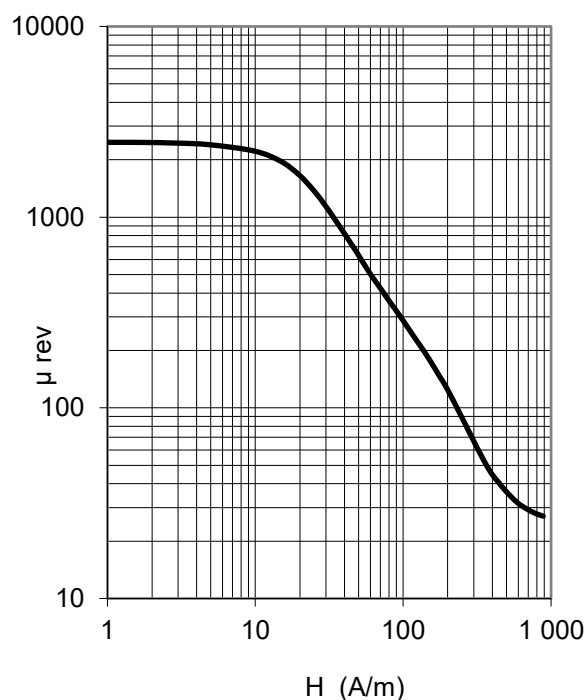


Fig.5 Reversible permeability as a function of field strength at 25°C (T25/15/12)