

# DATA SHEET

**3N1**

Material specification

2022 Nov 16th

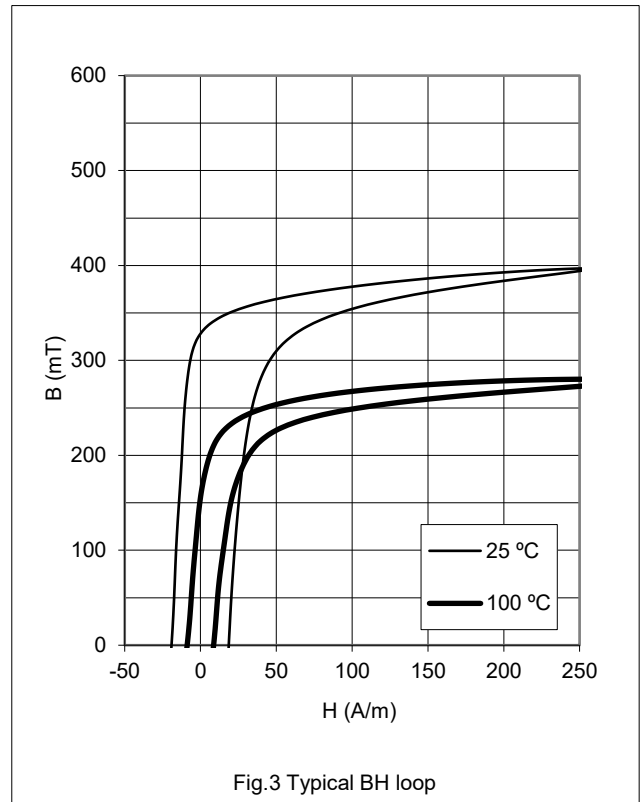
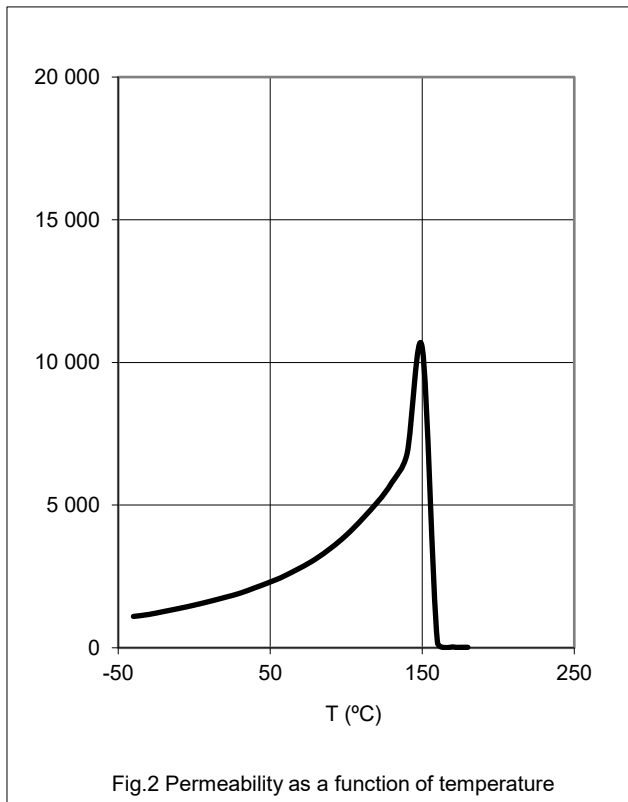
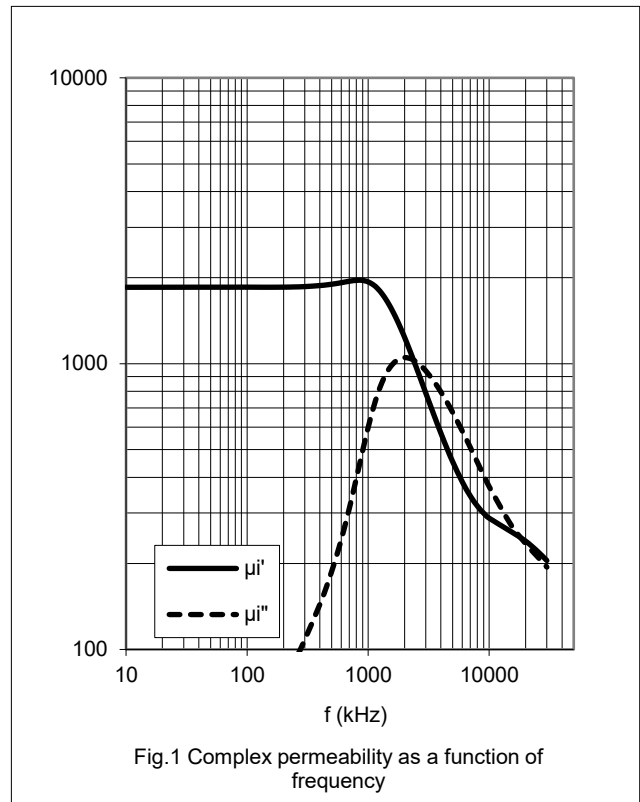


**3N1 SPECIFICATION**

An EMI-suppression material for conducted and radiated emissions up to 300 MHz with a maximum impedance in the frequency range 30 to 100 MHz.

SYMBOL	CONDITIONS	VALUE	UNIT
$\mu_i$	25°C; 10kHz; 0.25mT	$\approx 1800$	
$\mu_{i_{\text{remanence}}}$	25°C; 10kHz; 0.25mT	$\approx 600$	
B	25°C; 10kHz; 1200A/m	$\approx 420$	mT
	100°C; 10kHz; 1200A/m	$\approx 280$	
$Z C_1 / N^2$	25°C; 30MHz; 0.25mT	$\approx 40$	$\Omega/\text{mm}$
	25°C; 100MHz; 0.25mT	$\approx 59$	
$\rho_{\text{DC}}$	25°C	$\approx 10^3$	$\Omega\text{m}$
$T_c$		$\geq 150$	$^{\circ}\text{C}$
density		$\approx 4800$	$\text{kg} / \text{m}^3$

Measured on T14/9/5



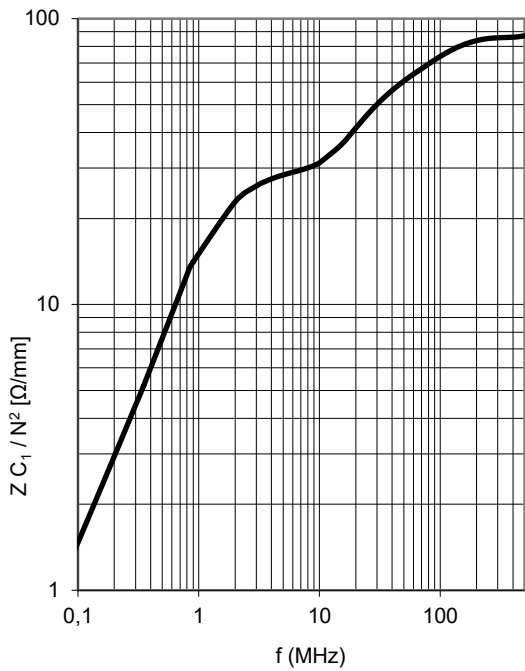


Fig.4 Normalized impedance as a function of frequency

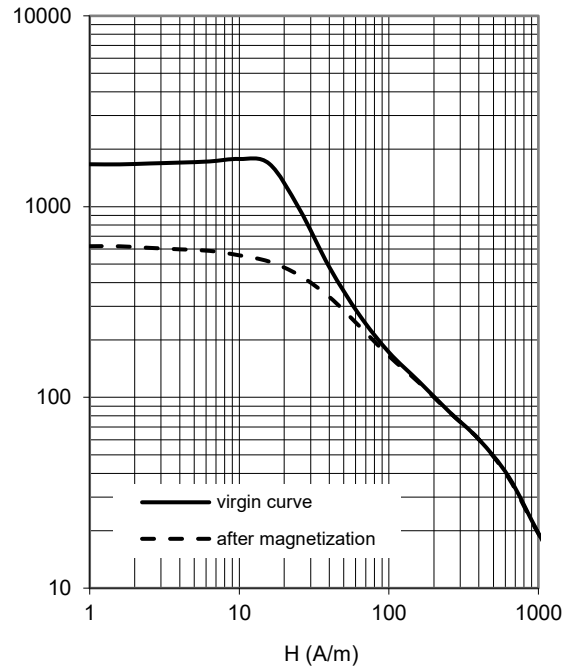


Fig.5 Reversible permeability as a function of magnetic field strength