

# DATA SHEET

**3E7T**

Material specification

2024 Apr 03



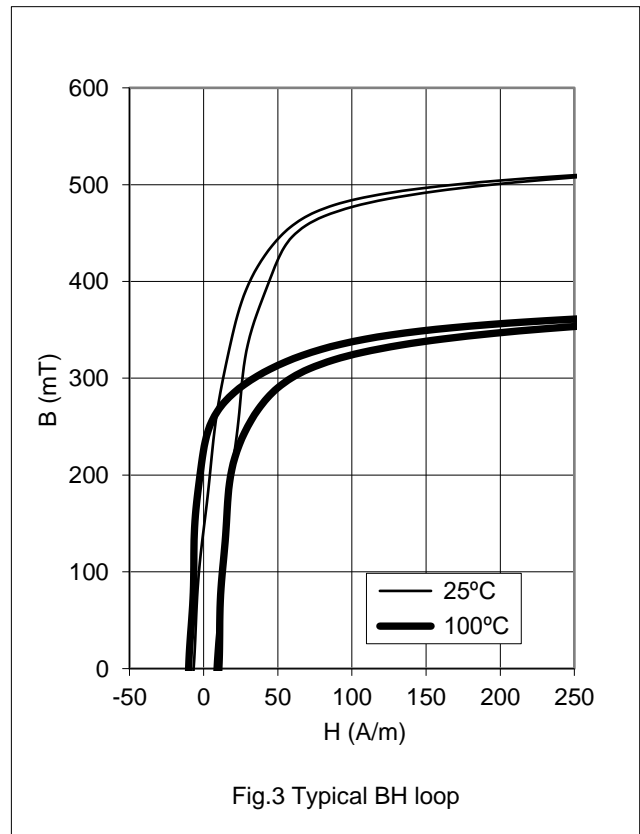
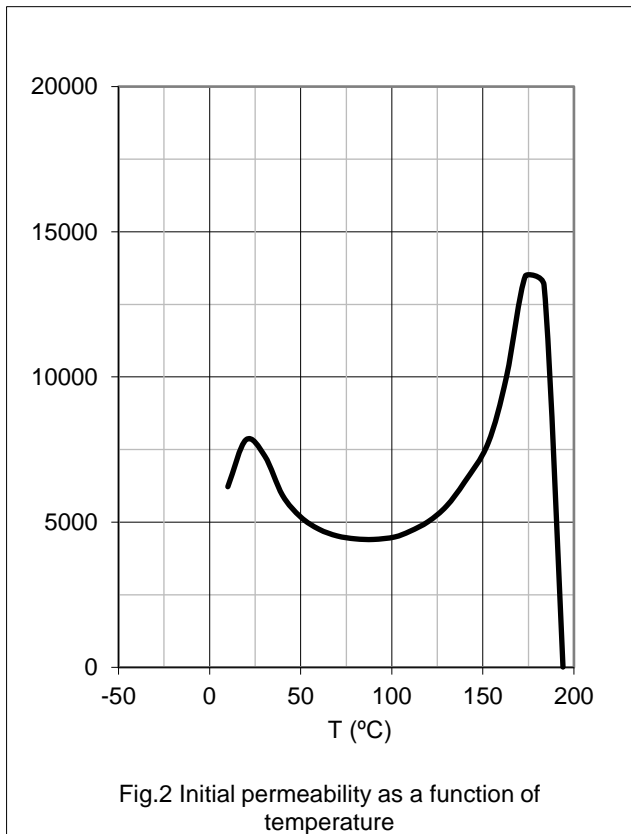
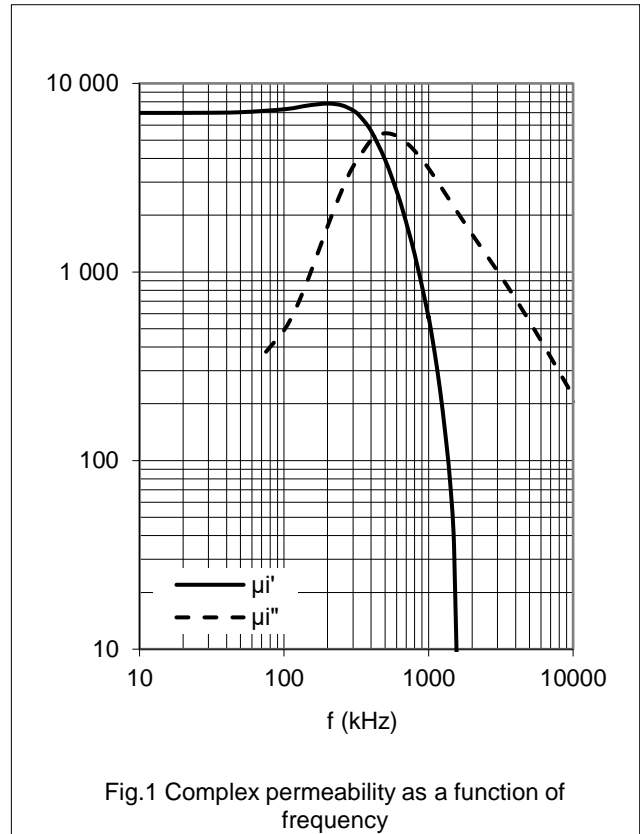
Material specification

3E7T SPECIFICATION

A high permeability material optimized for use in wideband transformers as well as EMI-suppression filters with Curie temperature > 180°C.

SYMBOL	CONDITIONS	VALUE	UNIT
$\mu_i$	25°C; 10kHz; 0.25mT	7000 ± 20%	
B	25°C; 10kHz; 1200A/m	≈ 510	mT
	100°C; 10kHz; 1200A/m	≈ 360	
$\tan\delta/\mu_i$	25°C; 30kHz; 0.25mT	≤ 3 · 10 <sup>-6</sup>	
	25°C; 100kHz; 0.25mT	≤ 9 · 10 <sup>-6</sup>	
$\rho_{DC}$	25°C	≈ 0.1	Ωm
T <sub>c</sub>		≥ 180	°C
density		≈ 4900	kg/m <sup>3</sup>

Typical performance of unstressed ring T25/15/10



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