

# DATA SHEET

## **3E6 (3E10-M)** Material specification

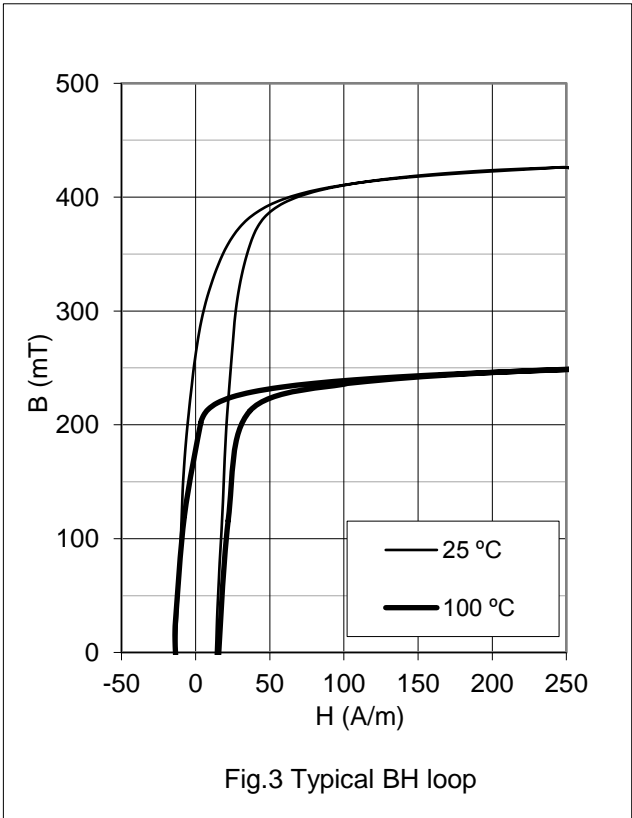
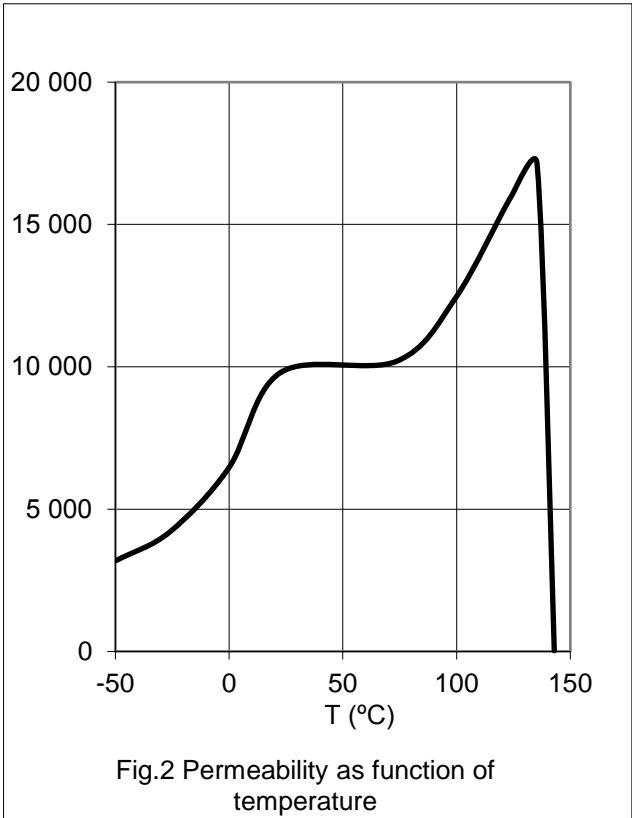
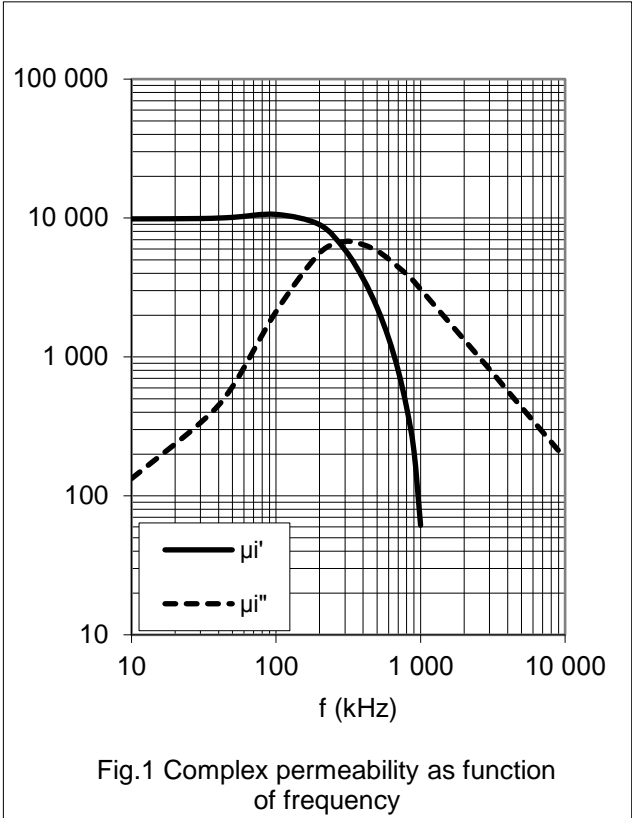
2016 November 18th

3E6 (3E10-M) SPECIFICATION

A high permeability material optimized for use in wideband transformers as well as EMI-suppression filters

SYMBOL	CONDITIONS	VALUE	UNIT
$\mu_i$	25°C; 10kHz; 0.25mT	10000 $\pm$ 30%	
B	25°C; 10kHz; 1200A/m	$\approx$ 460	mT
	100°C; 10kHz; 1200A/m	$\approx$ 270	
Tan $\delta/\mu_i$	25°C; 10kHz; 0.25mT	$\leq 10 \cdot 10^{-6}$	
	25°C; 30kHz; 0.25mT	$\leq 30 \cdot 10^{-6}$	
$\eta_B$	25°C; 10kHz; 1.5 to 3 mT	$\leq 1 \cdot 10^{-3}$	T <sup>-1</sup>
$\rho_{DC}$	25°C	$\approx$ 0.1	$\Omega m$
T <sub>c</sub>		$\geq$ 130	°C
density		$\approx$ 5000	k g / m 3

Measurd on T25/15/10



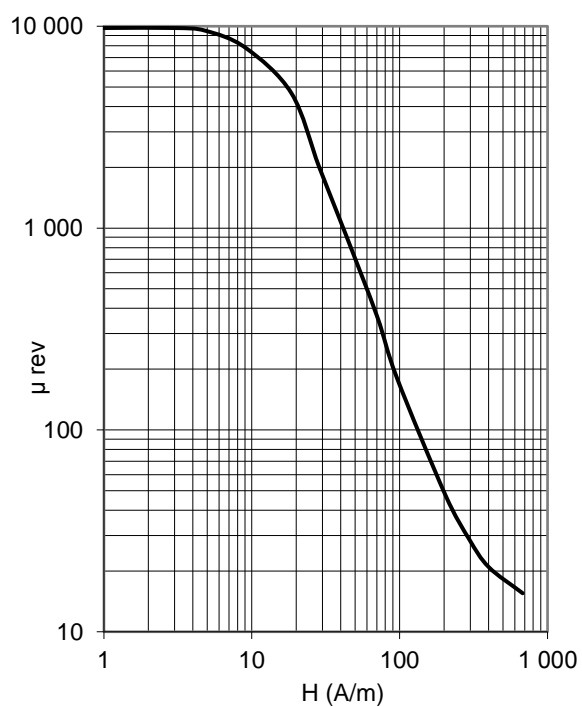


Fig.5 Reversible permeability at 25°C