

# DATA SHEET

**M071**

Materials specification

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## M071 SPECIFICATIONS

	CONDITIONS	VALUE	UNIT
$\mu_i$	25°C;10 kHz;0.25mT	7000 $\pm$ 20%	
	25°C;300 kHz;0.25mT	7000 $\pm$ 20%	
	25°C;800 kHz;0.25mT	>3500	
Bs	25°C;10 kHz;1200A/m	430	mT
	100°C; 10 kHz;1200A/m	250	
$\tan\delta / \mu_i$	30kHz, 25°C, 0.25mT	<4	$\times 10^{-6}$
	100kHz, 25°C, 0.25mT	<11	
$\eta_B$	10KHz, 25°C, 1.5-3.0mT	$\leq 0.3$	$10^{-6} / \text{mT}$
$\rho$	DC;25°C	0.5	$\Omega\text{m}$
Tc		$\geq 160$	°C
Density		4900	kg/m <sup>3</sup>

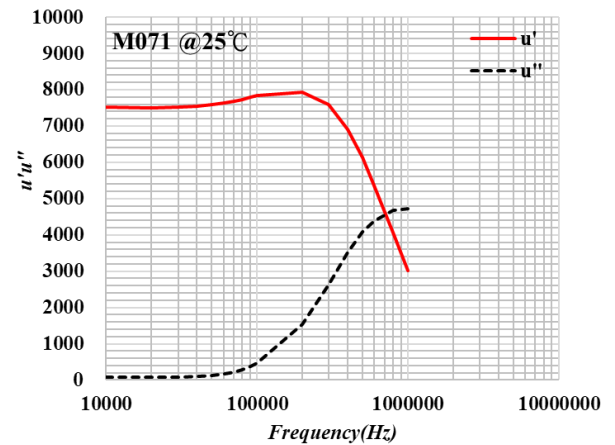


Fig.1 Complex permeability as a function of frequency.

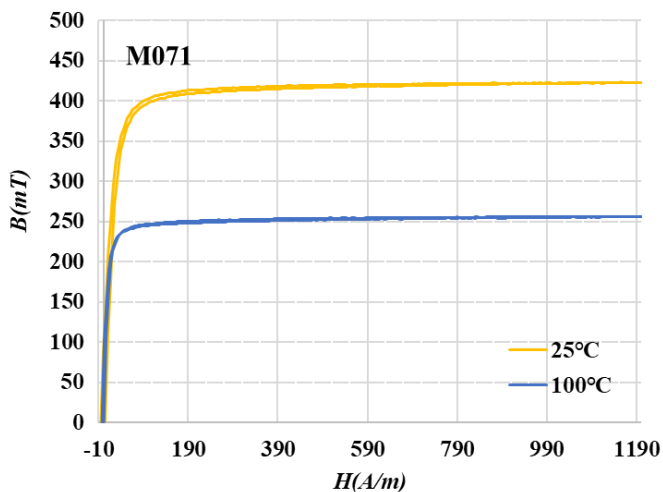


Fig.2 Typical B-H loops of 25°C & 100°C

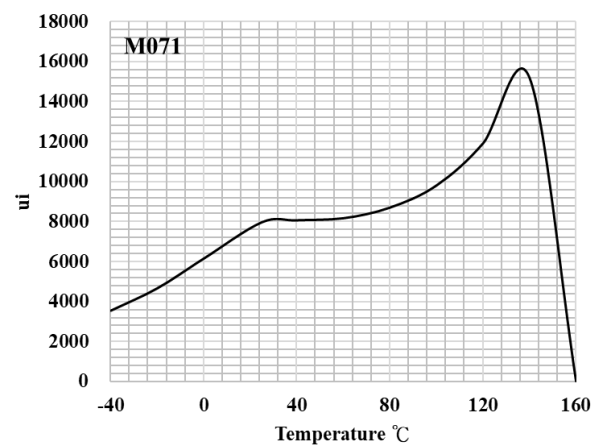


Fig.3 Initial permeability as a function of temperature.

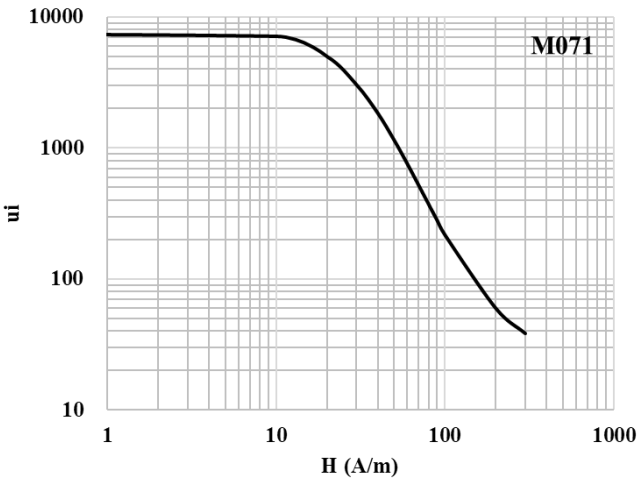


Fig.4 Reversible permeability as a function of magnetic field strength.

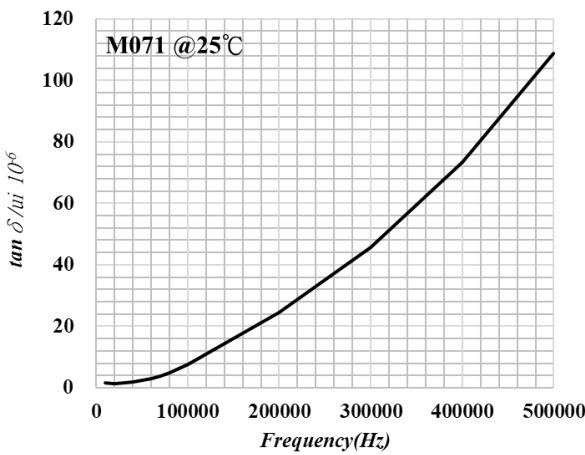


Fig.5 Loss factor in function of frequency.