

# DATA SHEET

**M10FH**

Materials specification

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## Materials specification

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## M10FH SPECIFICATIONS

	CONDITIONS	VALUE	UNIT
$\mu_i$	25°C; $\leq 10$ kHz; 0.25mT	10000 $\pm 20\%$	
Bs	25°C; 10 kHz; 1200A/m 100°C; 10 kHz; 1200A/m	440 270	mT
$\tan \delta / \mu_i$	30kHz, 25°C, 0.25mT 100kHz, 25°C, 0.25mT	<10 <30	$\times 10^{-6}$
$\rho$	DC; 25°C	0.5	$\Omega\text{m}$
Tc		$\geq 155$	°C
Density		5000	kg/m <sup>3</sup>

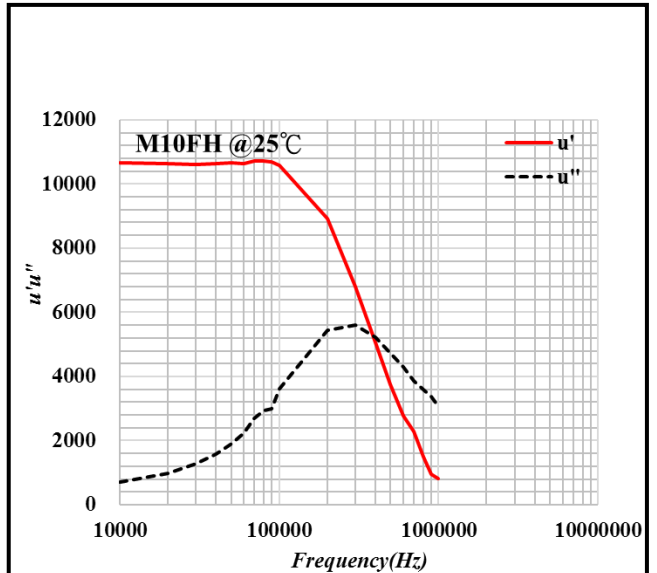


Fig.1 Complex permeability as a function of frequency.

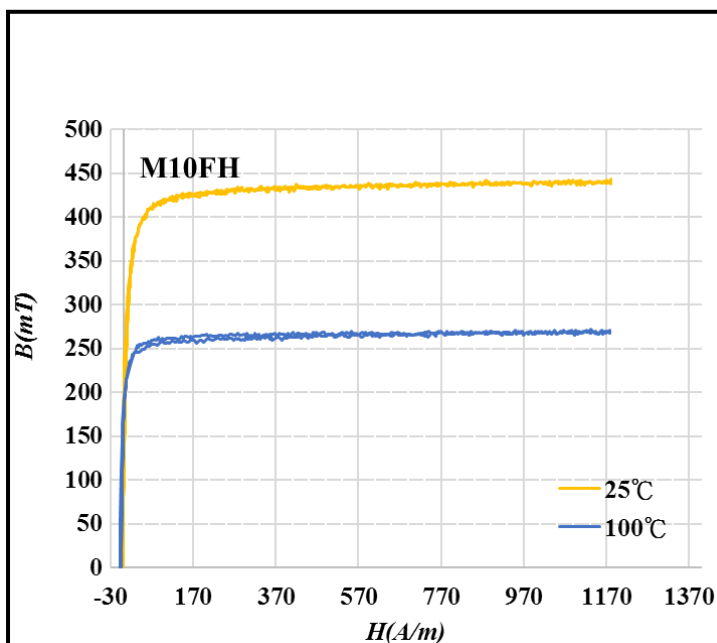


Fig.2 Typical B-H loops of 25°C & 100°C

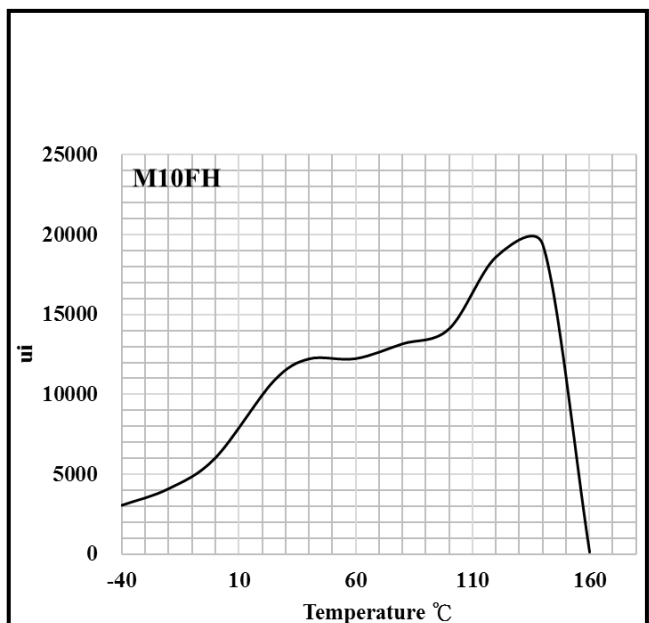


Fig.3 Initial permeability as a function of temperature.

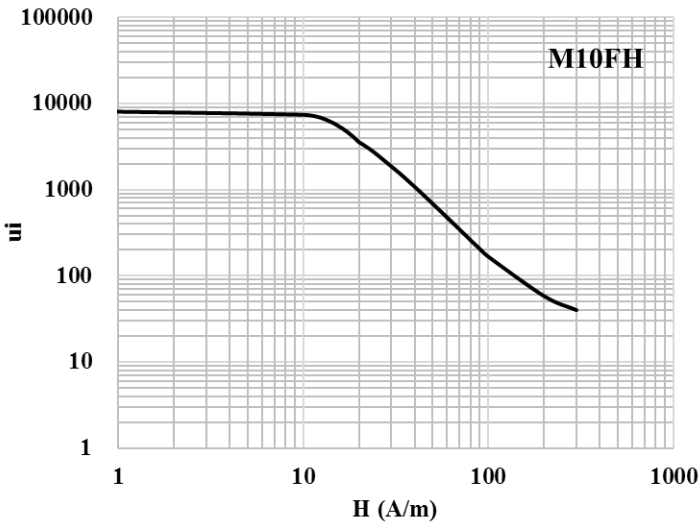


Fig.4 Reversible permeability as a function of magnetic field strength.

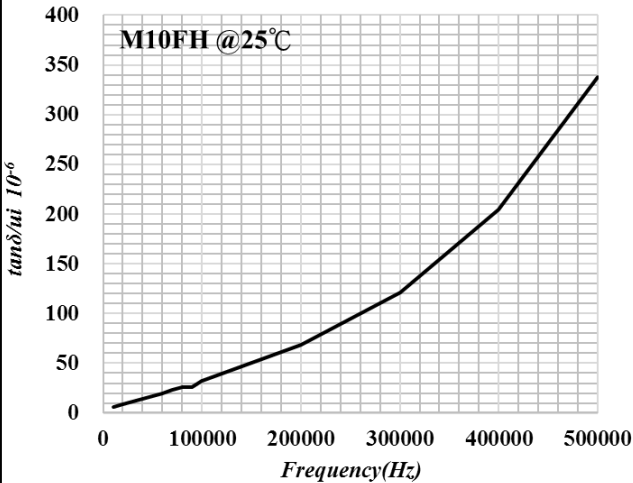


Fig.5 Loss factor in function of frequency.