

DATA SHEET

M10FH

Materials specification

2020/04/09



高科磁技股份有限公司
中鋼集團

Materials specification

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M10FH SPECIFICATIONS

	CONDITIONS	VALUE	UNIT
μ_i	25°C; ≤ 10 kHz; 0.25 mT	10000 $\pm 20\%$	
B_s	25°C; 10 kHz; 1200 A/m	440	mT
	100°C; 10 kHz; 1200 A/m	270	
$\tan\delta / \mu_i$	30 kHz, 25°C, 0.25 mT	< 10	$\times 10^{-6}$
	100 kHz, 25°C, 0.25 mT	< 30	
ρ	DC; 25°C	0.5	$\Omega \cdot m$
T_c		≥ 155	°C
Density		5000	kg/m^3

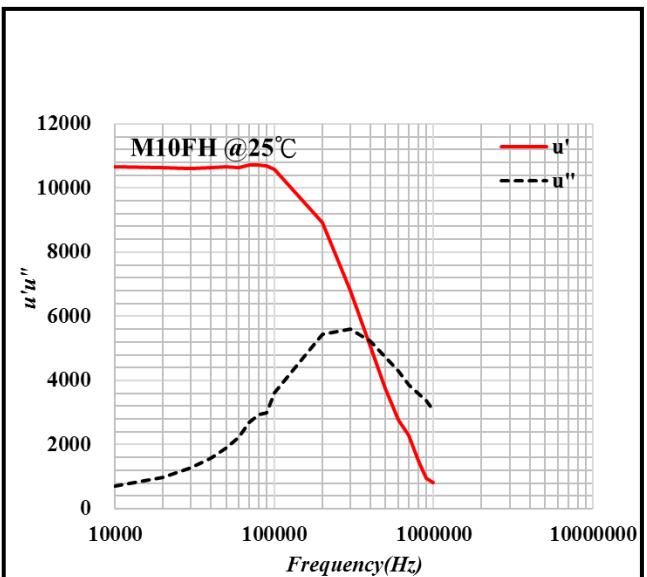


Fig.1 Complex permeability as a function of frequency.

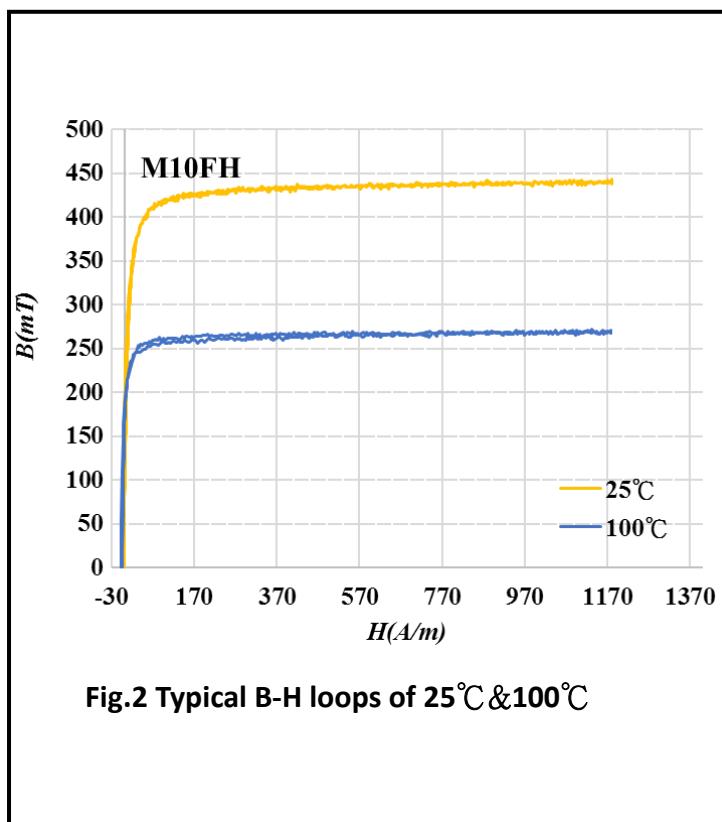


Fig.2 Typical B-H loops of 25°C & 100°C

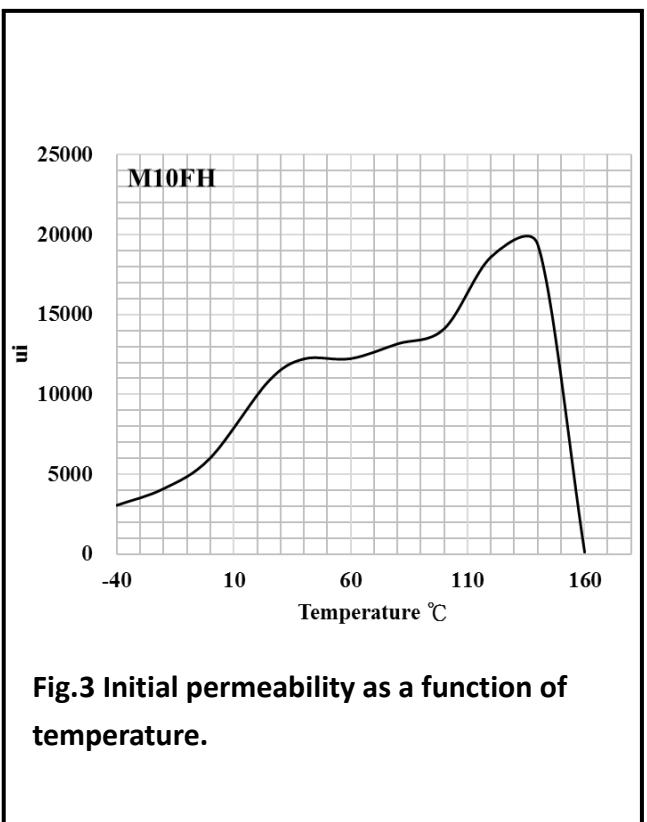


Fig.3 Initial permeability as a function of temperature.

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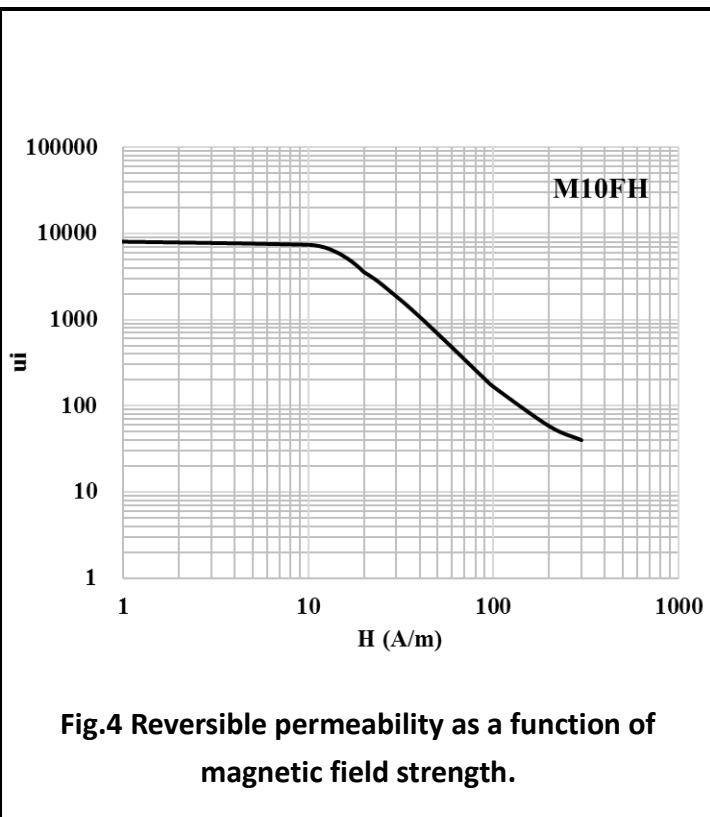
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Fig.4 Reversible permeability as a function of magnetic field strength.

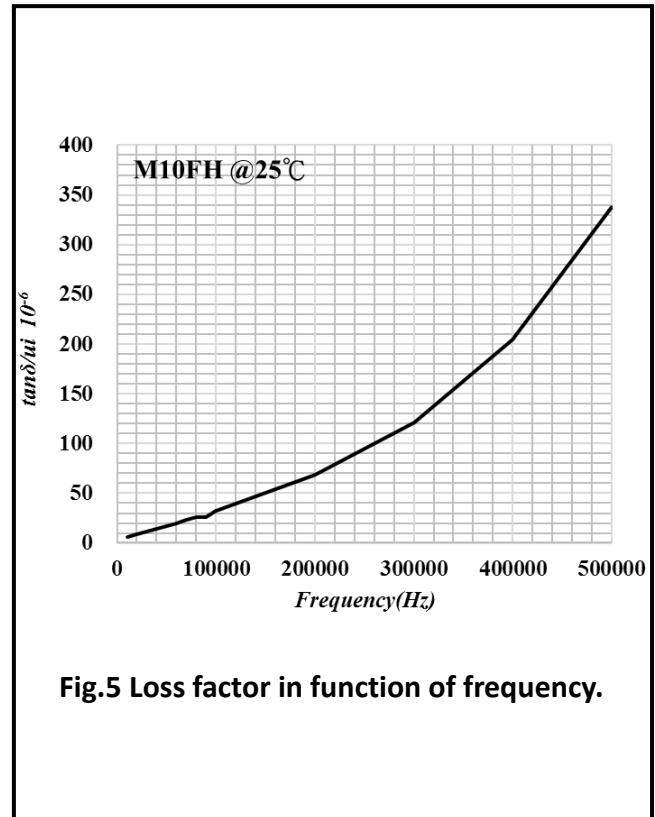


Fig.5 Loss factor in function of frequency.