DATA SHEET

MF91S

Materials specification

2019/01/10

高科磁技股份有限公司
中鋼集團

Materials specification MF91S

MF91S SPECIFICATIONS

	CONDITIONS	VALUE	UNIT
μi	25℃;≦10 kHz;0.25mT	1000± 20%	
μa	100℃;25 kHz;200mT	1850	
B	25℃;10 kHz;1200A/m 100℃; 10 kHz;1200A/m	510 430	mT
Br	25℃;10 kHz;1200A/m 100℃; 10 kHz;1200A/m	158 195	mT
Hc	25℃;10 kHz;1200A/m 100℃; 10 kHz;1200A/m	40 37	A/m
Pv	25℃; 1000kHz;50mT 100℃; 1000kHz;50mT 25℃; 3000kHz;10mT 100℃; 3000kHz;10mT	190 155 55 50	kW/m^3
ρ	DC;25℃	10	Ωm
Tc		≧290	℃
Density		4800	kg/m^3

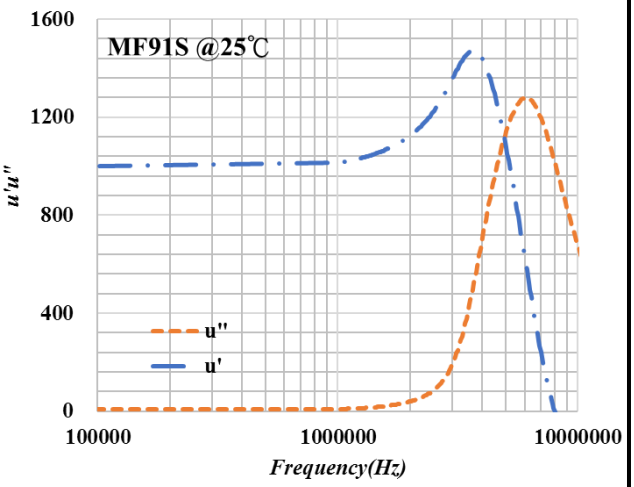

Fig.1 Complex permeability as a function of frequency.

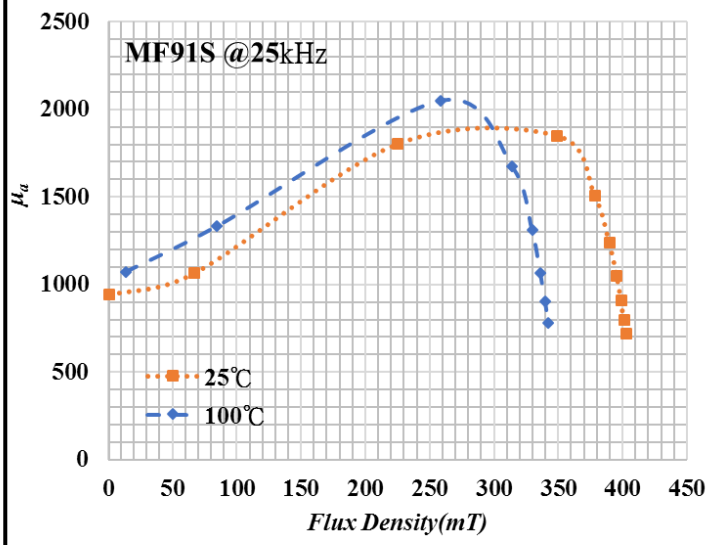

Fig.4 Amplitude permeability as function of peak flux density.

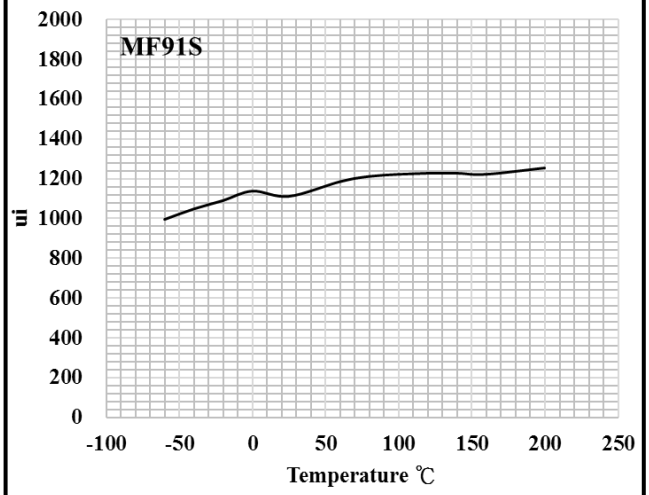

Fig.3 Initial permeability as a function of temperature.

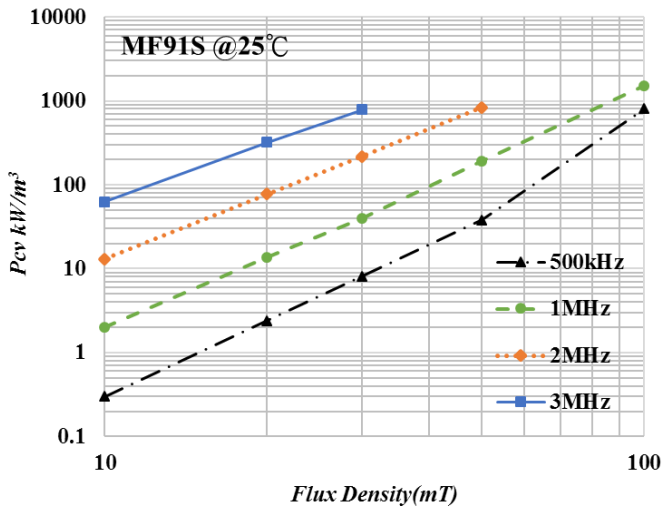

Fig.2 Specific power loss as a function of peak flux density with frequency as a parameter.

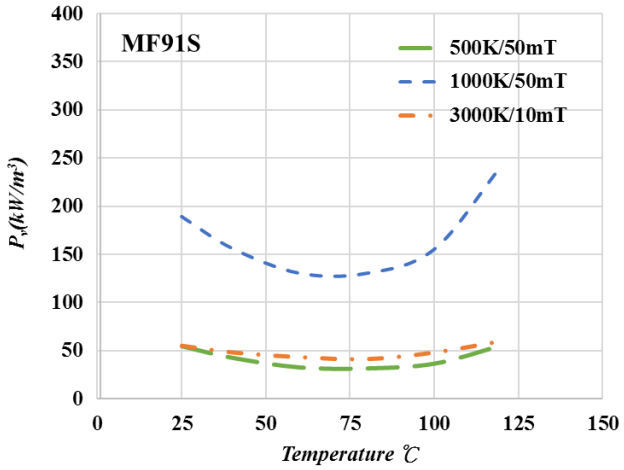

Fig.3 Specific power loss for several frequency/flux density combinations as a function of temperature.

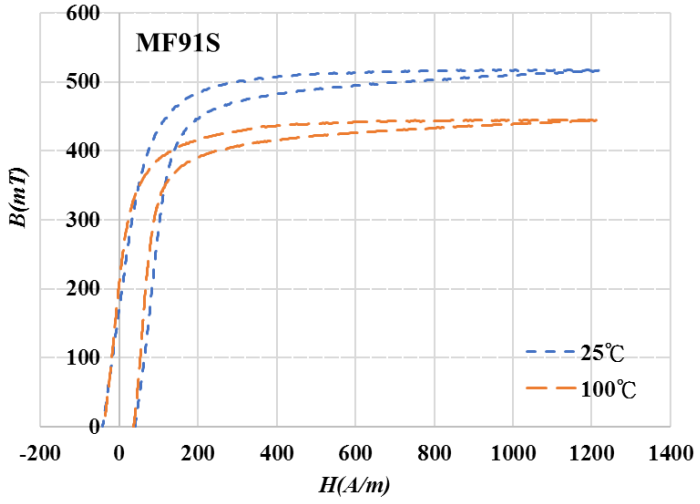

Fig.6 Typical B-H loops of 25℃&100℃

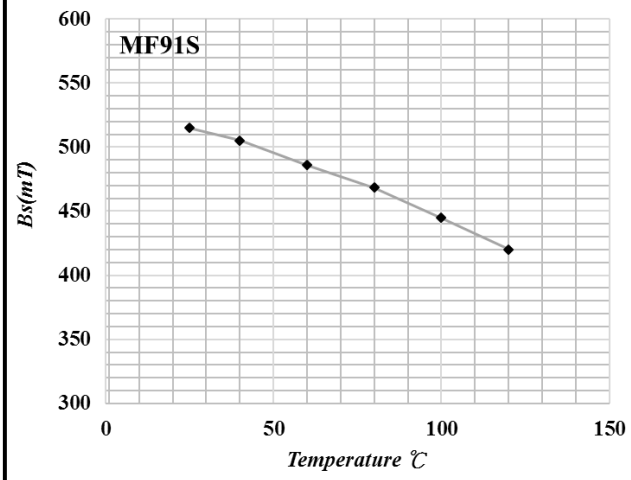

Fig.5 Bs VS Temperature