DATA SHEET

MZ97

Materials specification

2019/05/02

高科磁技股份有限公司
中鋼集團

Materials specification MZ97

MZ97 SPECIFICATIONS

	CONDITIONS	VALUE	UNIT
μi	25℃;≦10 kHz;0.25mT	3000± 20%	
μa	25℃;≦25 kHz;200mT	5300	
Bs	25℃;10 kHz;1200A/m 100℃; 10 kHz;1200A/m	520 420	mT
Br	25℃;10 kHz;1200A/m 100℃; 10 kHz;1200A/m	73 55	mT
Hc	25℃;10 kHz;1200A/m 100℃; 10 kHz;1200A/m	10 8.3	A/m
Pv	25℃; 100kHz;200mT 60℃; 100kHz;200mT 120℃; 100kHz;200mT 140℃; 100kHz;200mT	340 300 320 370	kW/m³
ρ	DC;25℃		Ωm
Tc		≧215	℃
Density		4900	kg/m³

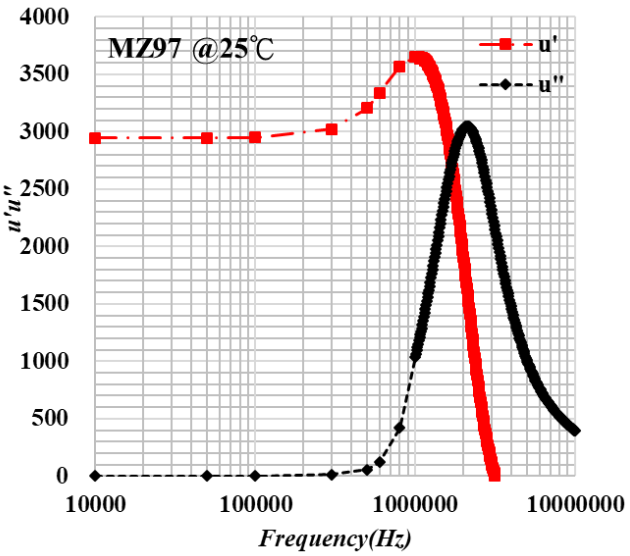

Fig.1 Complex permeability as a function of frequency.

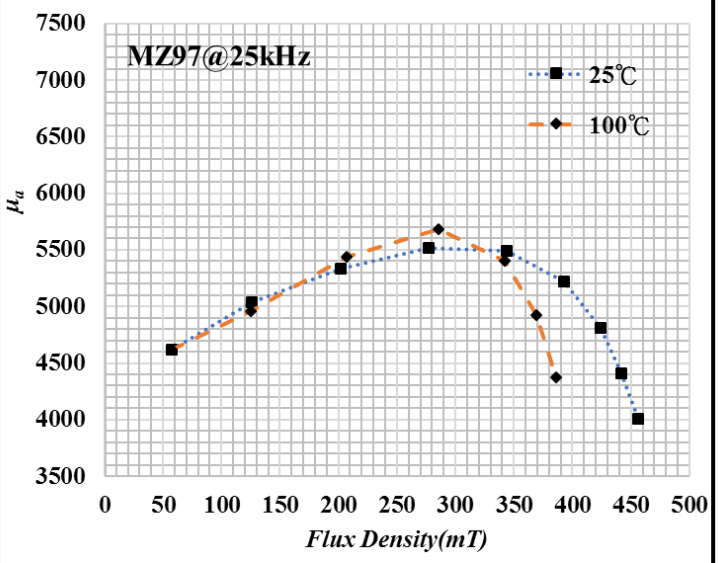

Fig.2 Amplitude permeability as function of peak flux density.

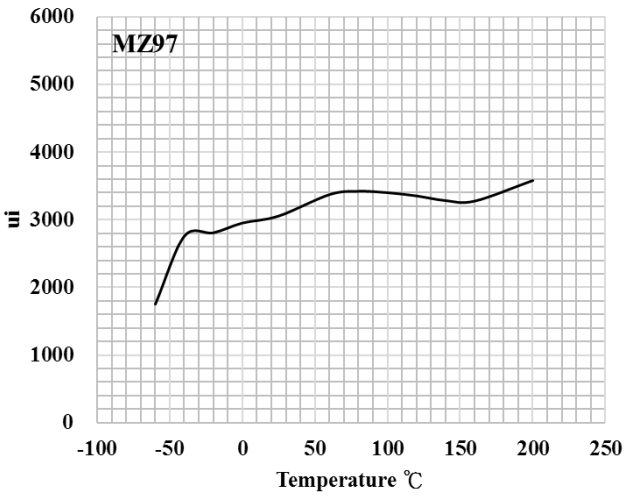

Fig.3 Initial permeability as a function of temperature.

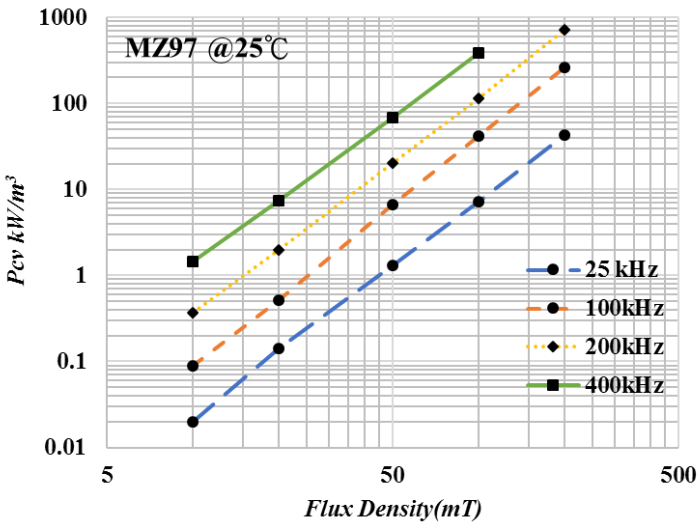

Fig.4 Specific power loss as a function of peak flux density with frequency as a parameter.

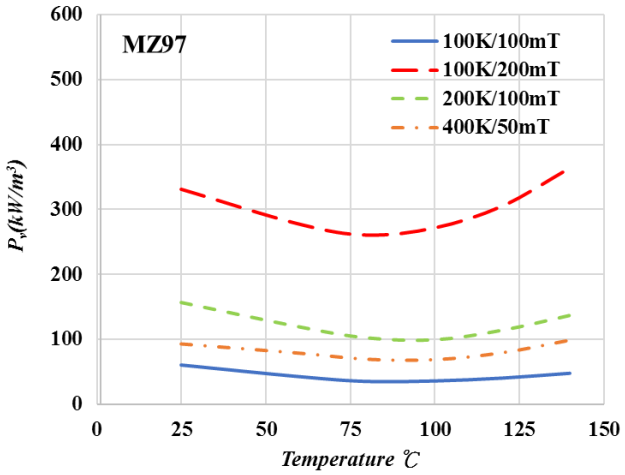

Fig.5 Specific power loss for several frequency/flux density combinations as a function of temperature.

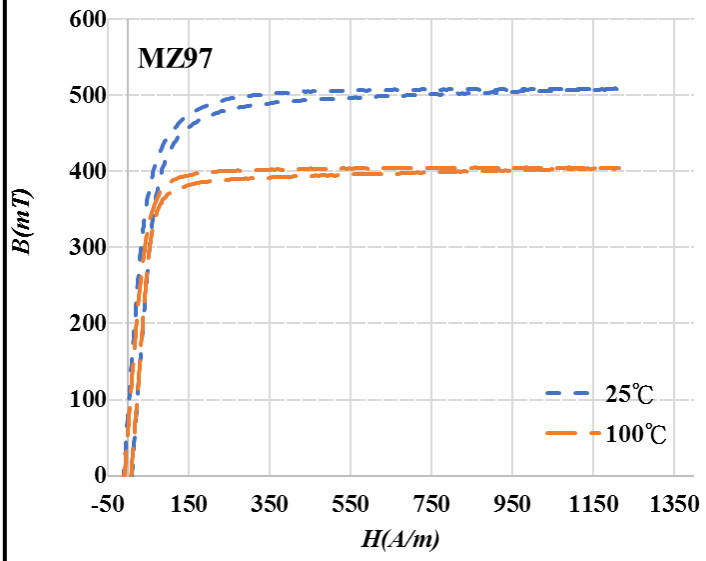

Fig.6 Typical B-H loops of 25℃&100℃

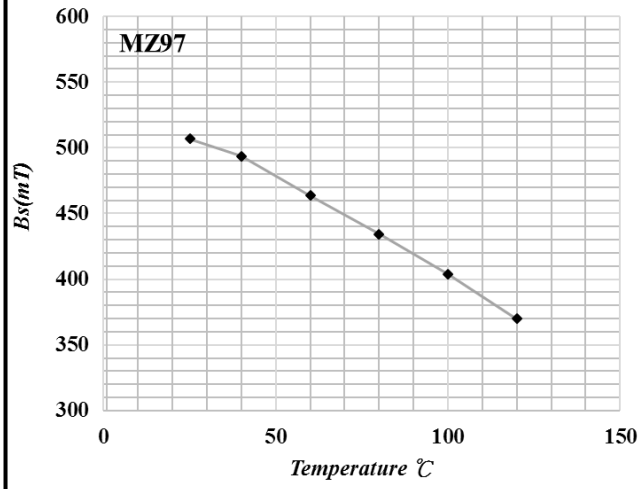

Fig.7 Bs VS Temperature