DATA SHEET

MZ97D

Wide temperature and low loss material,

recommended to use at frequencies of 200KHz~400KHz.

2023/09/18

高科磁技股份有限公司
中鋼集團

Materials specification MZ97D

MZ97D SPECIFICATIONS

	CONDITIONS	VALUE	UNIT
μi	25℃;≦10 kHz;0.25mT	2700± 20%	
μa	25℃;≦25 kHz;200mT	1750	
Bs	25℃;10 kHz;1200A/m 100℃; 10 kHz;1200A/m	530 430	mT
Br	25℃;10 kHz;1200A/m 100℃; 10 kHz;1200A/m	80 75	mT
Hc	25℃;10 kHz;1200A/m 100℃; 10 kHz;1200A/m	15 13	A/m
Pv	25℃; 100kHz;200mT 100℃; 100kHz;200mT 25℃; 300kHz;100mT 100℃; 300kHz;100mT	255 365 170 235	kW/m^3
ρ	DC;25℃	5	Ωm
Tc		≧240	℃
Density		4850	kg/m^3

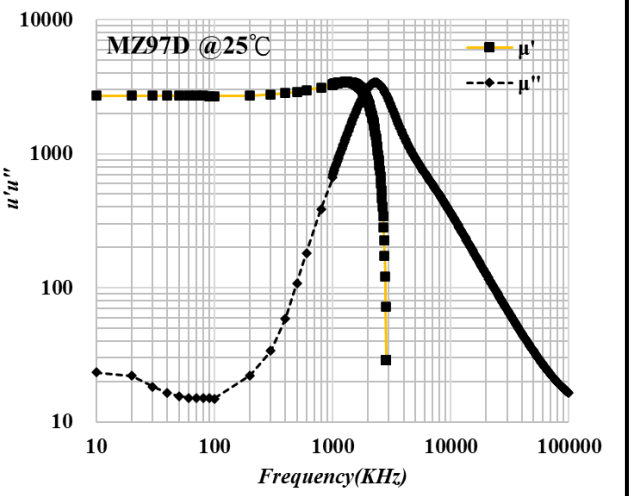

Fig.1 Complex permeability as a function of frequency.

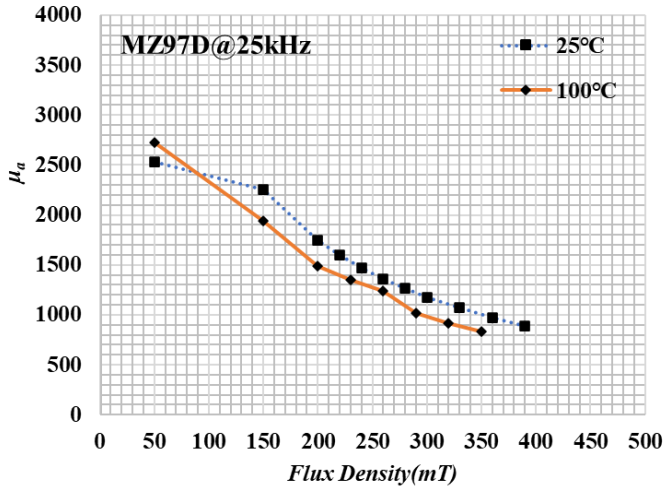

Fig.2 Amplitude permeability as function of peak flux density.

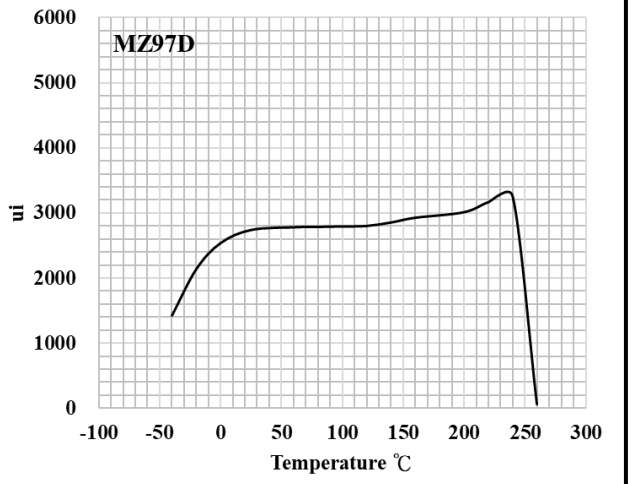

Fig.3 Initial permeability as a function of temperature.

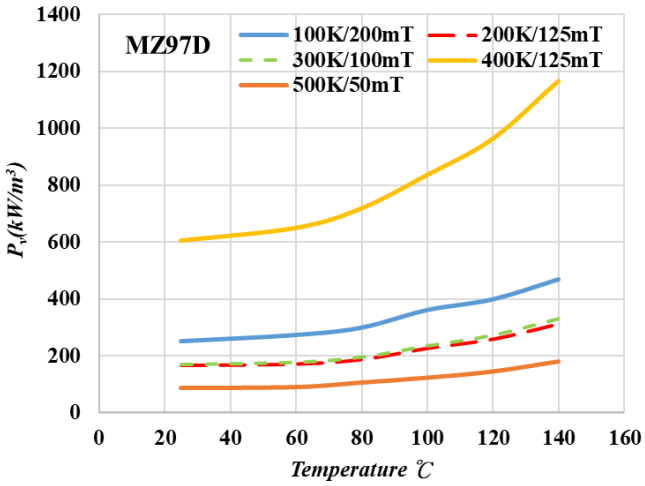

Fig.4 Specific power loss as a function of peak flux density with frequency as a parameter.

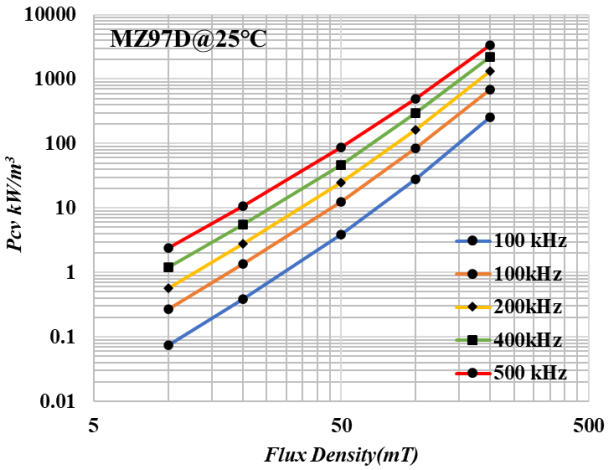

Fig.5 Specific power loss for several frequency/flux density combinations as a function of temperature.

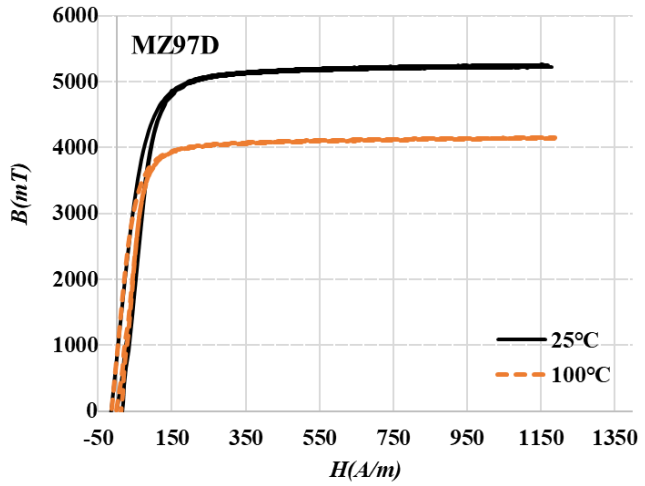

Fig.6 Typical B-H loops of 25℃&100℃

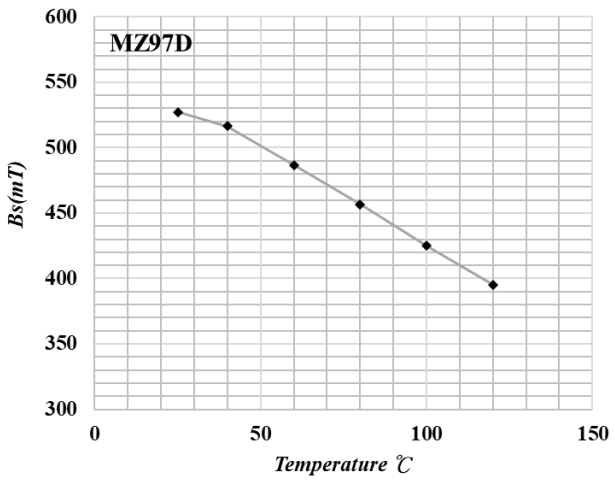

Fig.7 Bs VS Temperature