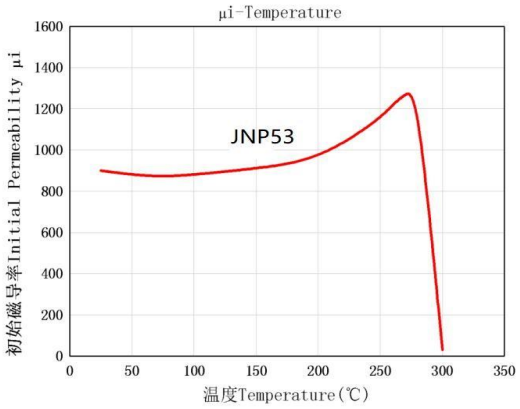
Mn-Zn 功率铁氧体材料特性

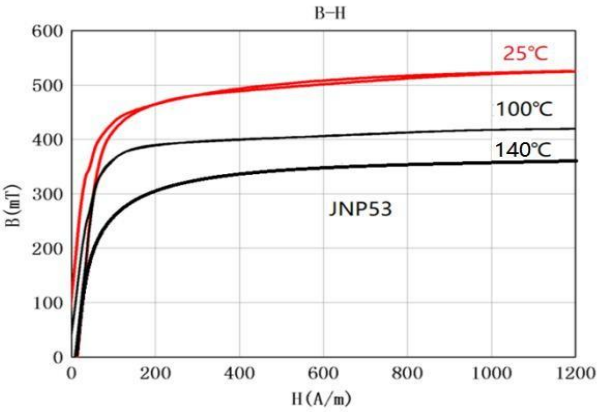
Mn-Zn Power Ferrite Characteristics

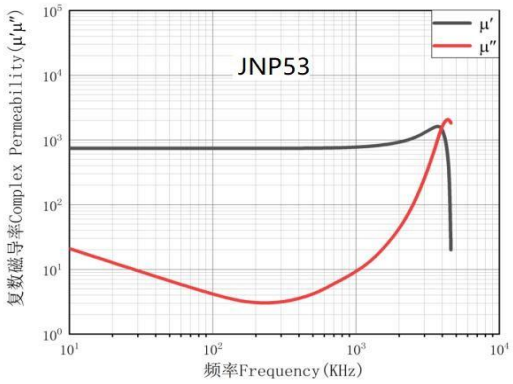
特性 **Characteristic**	测试条件 **Condition**		**JNP53**
初始磁导率μ i Initial Permeability	10KHz,<0.25mT	25℃	900±25%
饱和磁感应强度 Bs（mT） Saturation Flux Density	50Hz,1194A/m	25℃	510
		100℃	420
		140℃	360
功耗 Pcv（mW/m^3） Power Loss	500KHz,100mT	25℃	680
		100℃	620
		140℃	700
	1MHz,50mT	25℃	70
		100℃	70
		140℃	120
	2MHz,50mT	25℃	300
		100℃	290
		140℃	420
	3MHz,30mT	25℃	220
		100℃	200
		140℃	280
居里温度 Tc（℃）Curie Temperature	10KHz,<0.25mT		>280
密度 d（g/cm^3）density		25℃	4.75

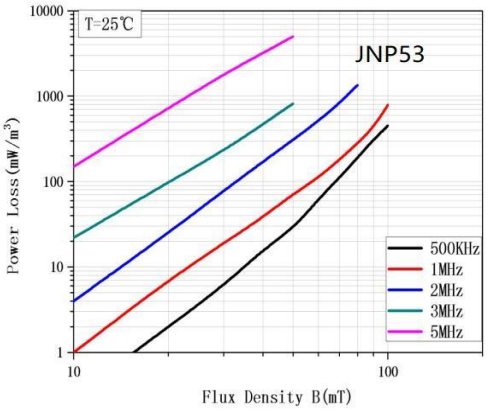
注： 以上数据是根据标准样环 T12.7X7。9X7 获得的典型数据，有关产品的具体性能会在此基础上有所调整。

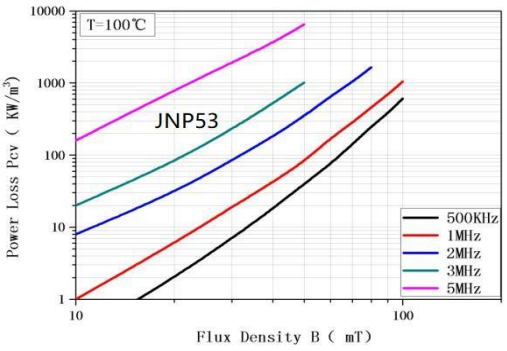
The above typical data arecalculated from the standard toroid core.The specific property of any parts will be adjusted a little based on these date.

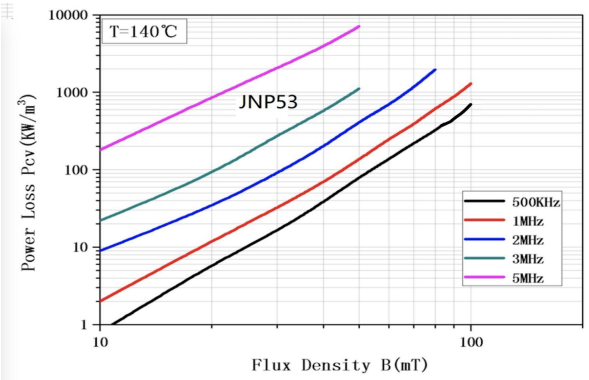

μi-Temperature
JNP53
初始磁导率Initial Permeability μi
温度Temperature(℃)

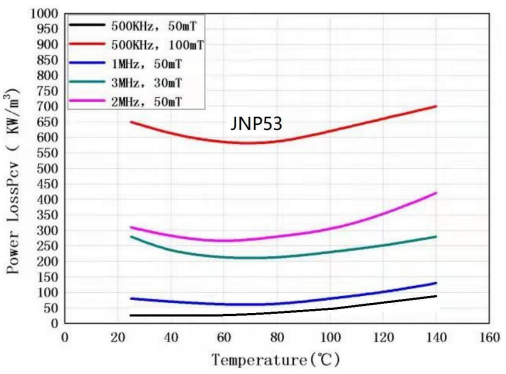

B-H
25℃
100℃
140℃
JNP53
B(mT)
H(A/m)


JNP53
μ′
μ″
复数磁导率Complex Permeability(μ′μ″)
频率Frequency(KHz)


T=25℃
JNP53
500KHz
1MHz
2MHz
3MHz
5MHz
Power Loss(mW/m3)
Flux Density B(mT)


T=100℃
JNP53
500KHz
1MHz
2MHz
3MHz
5MHz
Power Loss Pcv (KW/m3)
Flux Density B (mT)


T=140℃
JNP53
500KHz
1MHz
2MHz
3MHz
5MHz
Power Loss Pcv(KW/m3)
Flux Density B(mT)


500KHz, 50mT
500KHz, 100mT
1MHz, 50mT
3MHz, 30mT
2MHz, 50mT
JNP53
Power LossPcv (KW/m3)
Temperature(℃)