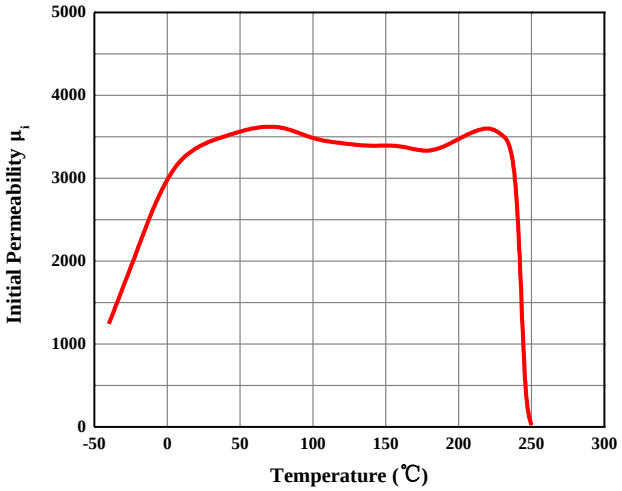
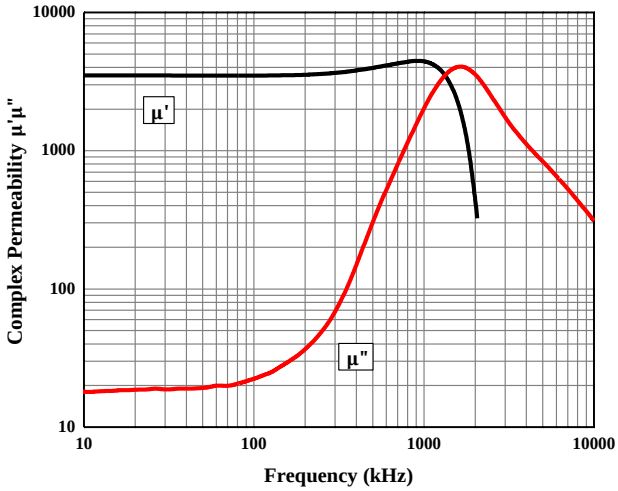
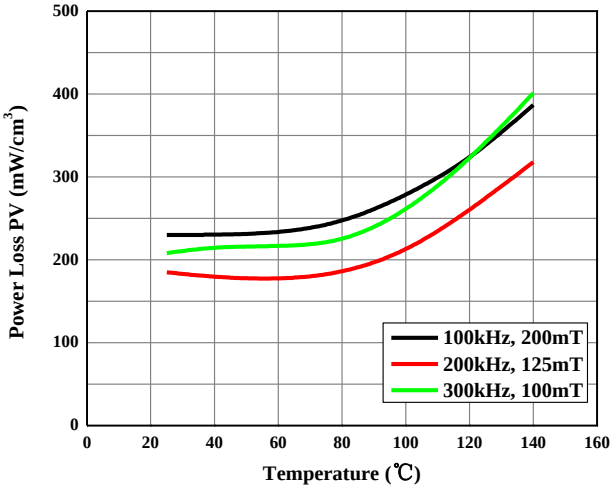
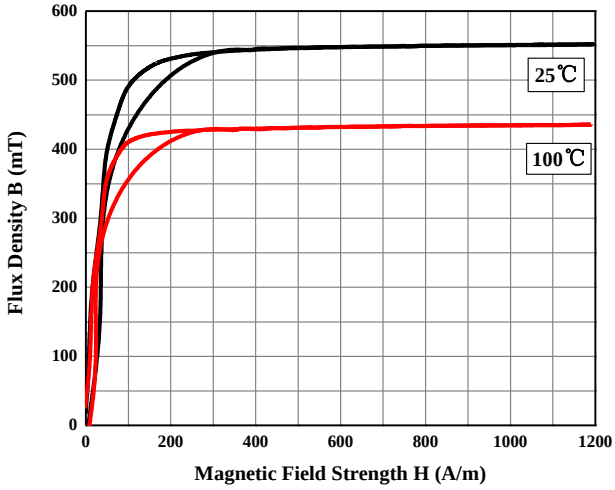
DMR97T 材料特性
DMR97T Material Characteristics

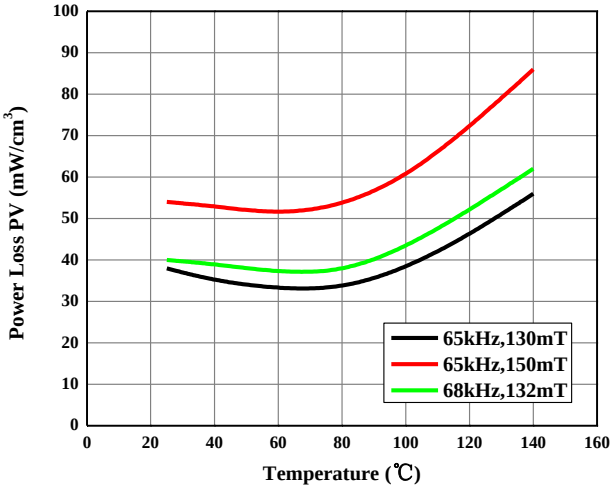
特性 CHARACTERISTICS	测试条件 CONDITIONS		典型值 VALUE
初始磁导率 μ_i Initial Permeability	f=10kHz, B<0.25mT	25℃	3300±25%
饱和磁感应强度 Bs (mT) Saturation Magnetic Flux Density	1194A/m 50Hz	25℃	550
		100℃	435
剩磁 Br (mT) Residual Magnetic Flux Density		25℃	60
		100℃	55
矫顽力 Hc (A/m) Coercive Force		25℃	10
		100℃	8
功耗 Pv (mW/cm^3) Power Loss	100kHz, 200mT	25℃	230
		40℃	230
		60℃	235
		80℃	245
		100℃	280
		120℃	320
		140℃	380
	200kHz, 125mT	25℃	185
		40℃	180
		60℃	180
		80℃	185
		100℃	210
		120℃	260
		140℃	320
	300kHz, 120mT	25℃	355
		60℃	375
		80℃	395
		100℃	435
		120℃	520
	400kHz, 100mT	25℃	415
		60℃	430
		80℃	445
		100℃	490
		120℃	600
居里温度 Tc (℃) Curie Temperature	f=10kHz, B<0.25mT		>230
密度 d (g/cm^3) Density		25℃	>4.8

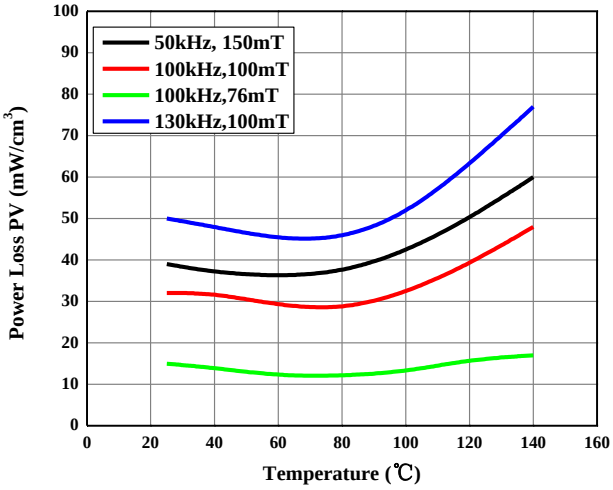

Initial Permeability μi
5000
4000
3000
2000
1000
0
-50
0
50
100
150
200
250
300
Temperature (℃)

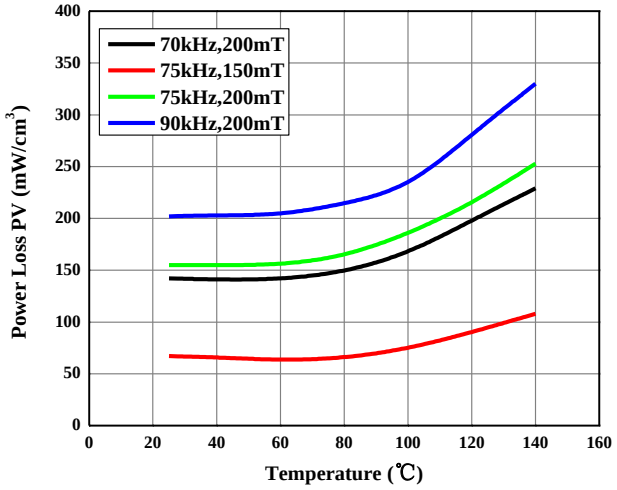

Complex Permeability μ'μ"
10000
1000
100
10
μ'
μ"
10
100
1000
10000
Frequency (kHz)

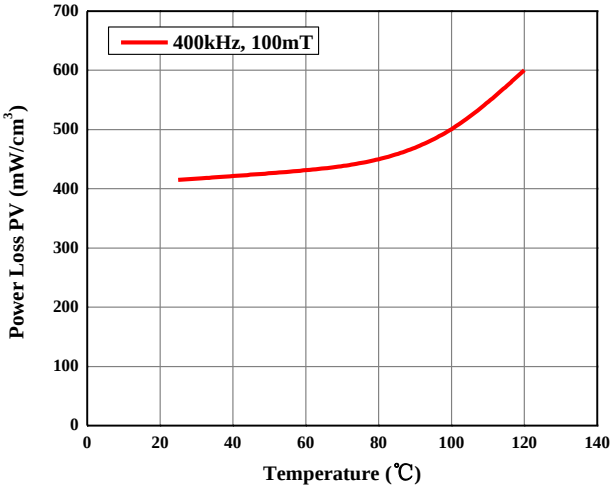

Power Loss PV (mW/cm3)
500
400
300
200
100
0
0
20
40
60
80
100
120
140
160
Temperature (℃)
100kHz, 200mT
200kHz, 125mT
300kHz, 100mT

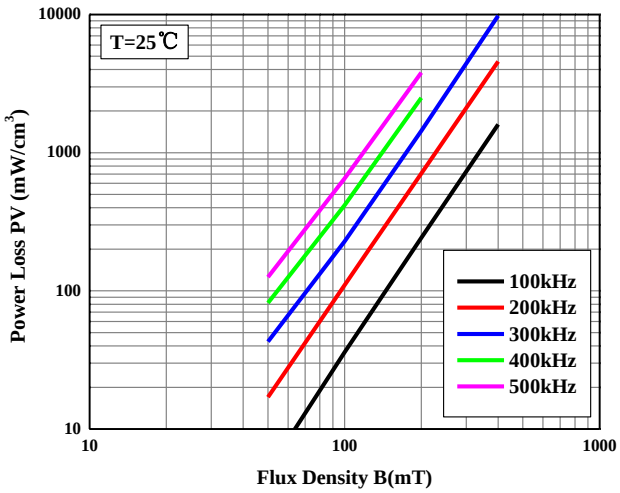

Flux Density B (mT)
600
500
400
300
200
100
0
0
200
400
600
800
1000
1200
Magnetic Field Strength H (A/m)
25℃
100℃

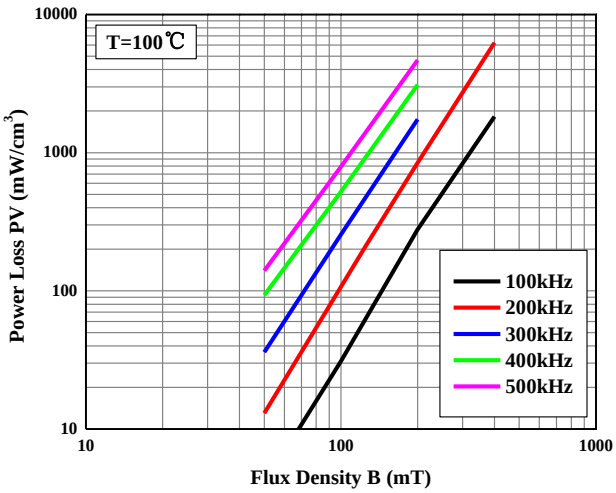

Power Loss PV (mW/cm3)
100
90
80
70
60
50
40
30
20
10
0
0
20
40
60
80
100
120
140
160
Temperature (℃)
65kHz,130mT
65kHz,150mT
68kHz,132mT

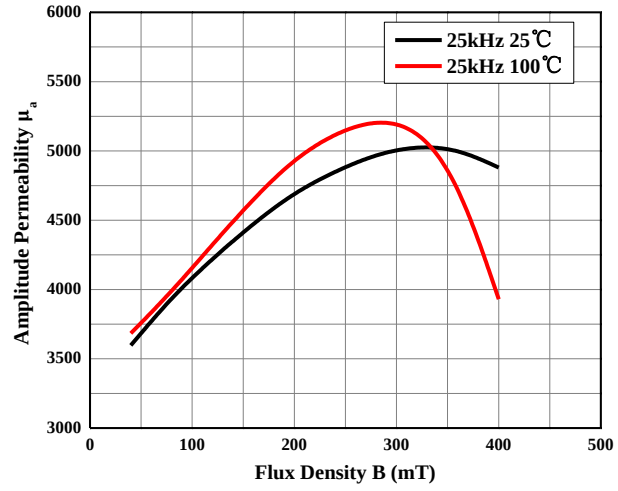

Power Loss PV (mW/cm3)
100
90
80
70
60
50
40
30
20
10
0
0
20
40
60
80
100
120
140
160
Temperature (℃)
50kHz, 150mT
100kHz,100mT
100kHz,76mT
130kHz,100mT

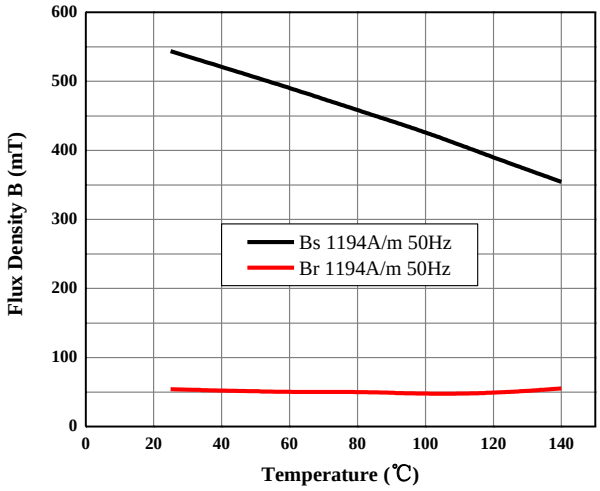












以上数据是根据标准样环 ϕ25× ϕ15×8 获得的典型数据，有关产品的具体性能会在此基础上有所调整。

The above typical data are calculated from the standard toroid core. Specific performance of the product will be adjusted on this basis.