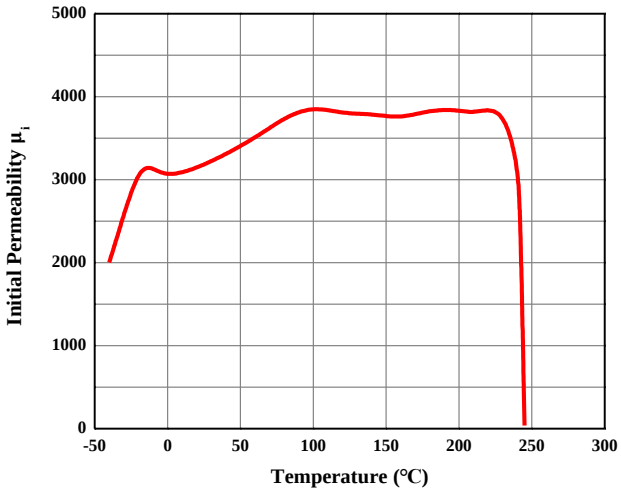
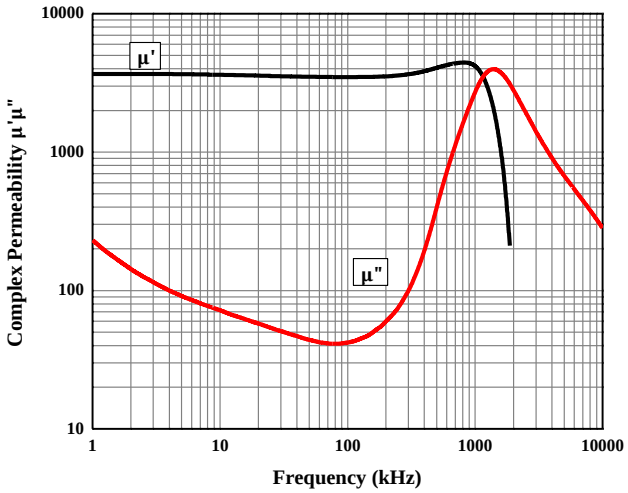
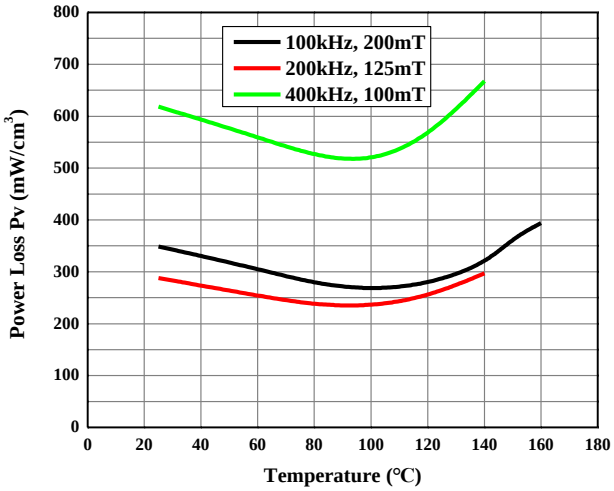
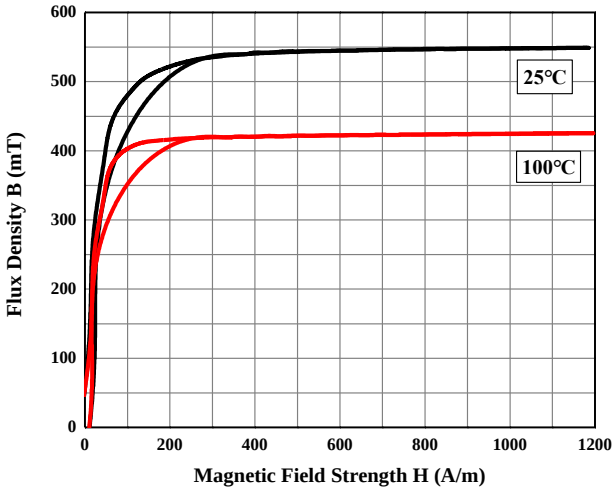
# DMR97 材料特性
# DMR97 Material Characteristic

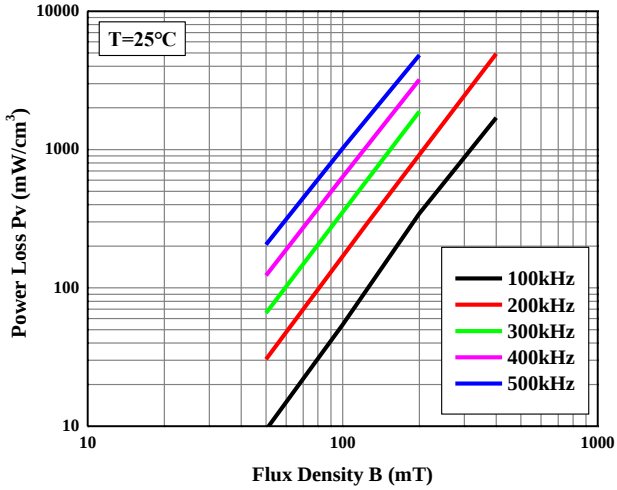
| 特性<br>CHARACTERISTICS | 测试条件<br>CONDITIONS | | 典型值<br>VALUE |
|---|---|---|---|
| 初始磁导率 $\mu_i$<br>Initial Permeability | f=10kHz, B<0.25mT | 25℃ | 3000±25% |
| 饱和磁感应强度 Bs (mT)<br>Saturation Magnetic Flux Density | 1194A/m<br>50Hz | 25℃ | 540 |
| | | 100℃ | 425 |
| 剩磁 Br (mT)<br>Residual Magnetic Flux Density | | 25℃ | 65 |
| | | 100℃ | 55 |
| 矫顽力 Hc (A/m)<br>Coercive Force | | 25℃ | 15 |
| | | 100℃ | 10 |
| 功耗 Pv ($mW/cm^3$)<br>Power Loss | 100kHz, 200mT | 25℃ | 350 |
| | | 60℃ | 290 |
| | | 80℃ | 280 |
| | | 100℃ | 270 |
| | | 120℃ | 280 |
| | | 140℃ | 330 |
| | 400kHz, 100mT | 25℃ | 620 |
| | | 60℃ | 560 |
| | | 80℃ | 525 |
| | | 100℃ | 510 |
| | | 120℃ | 560 |
| | | 140℃ | 670 |
| 居里温度 Tc (℃)<br>Curie Temperature | f=10kHz, B<0.25mT | | >230 |
| 密度 d ($g/cm^3$)<br>Density | | 25℃ | >4.8 |

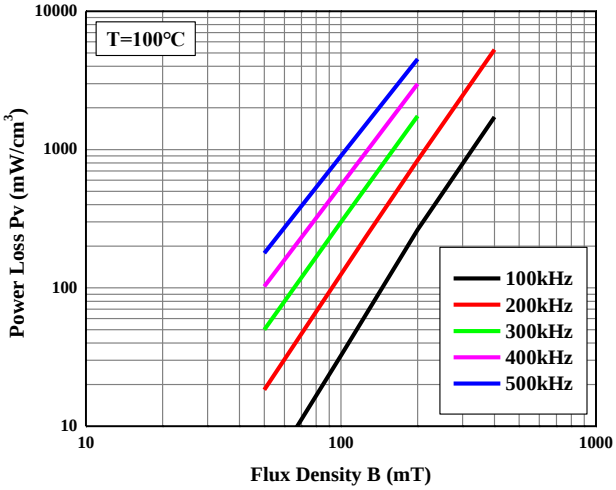

Initial Permeability μi
5000
4000
3000
2000
1000
0
-50
0
50
100
150
200
250
300
Temperature (℃)

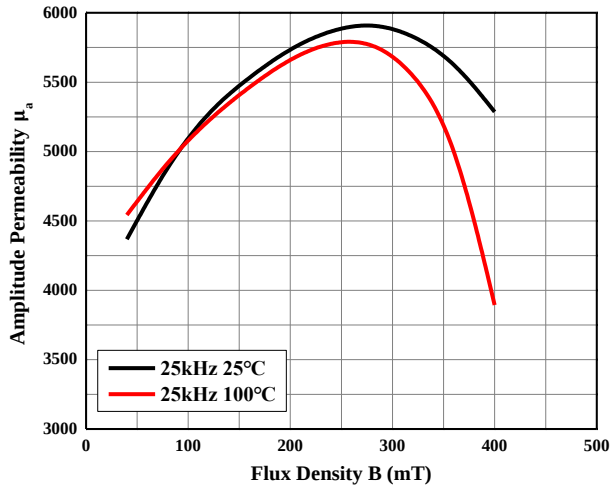

Complex Permeability μ'μ"
10000
1000
100
10
μ'
μ"
1
10
100
1000
10000
Frequency (kHz)

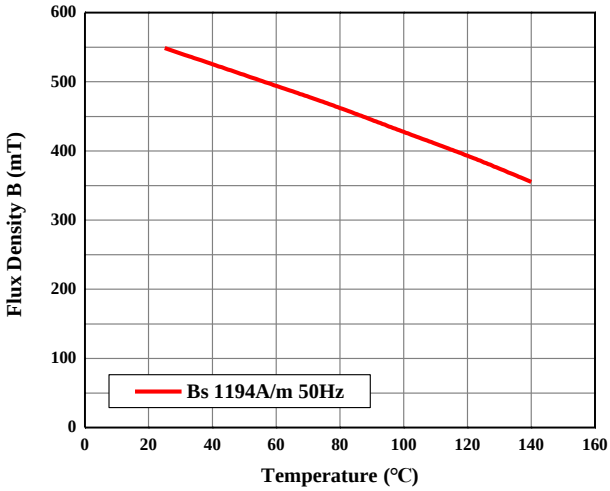

Power Loss Pv (mW/cm3)
800
700
600
500
400
300
200
100
0
100kHz, 200mT
200kHz, 125mT
400kHz, 100mT
0
20
40
60
80
100
120
140
160
180
Temperature (℃)


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


Power Loss Pv (mW/cm3)
10000
1000
100
10
T=25℃
100kHz
200kHz
300kHz
400kHz
500kHz
10
100
1000
Flux Density B (mT)


Power Loss Pv (mW/cm3)
10000
1000
100
10
T=100℃
100kHz
200kHz
300kHz
400kHz
500kHz
10
100
1000
Flux Density B (mT)




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.