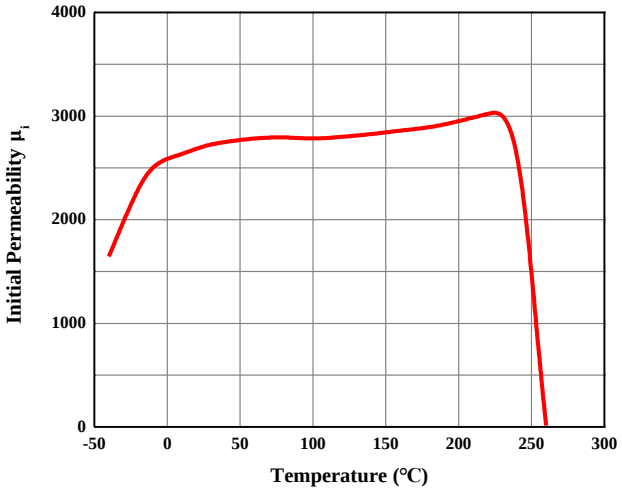
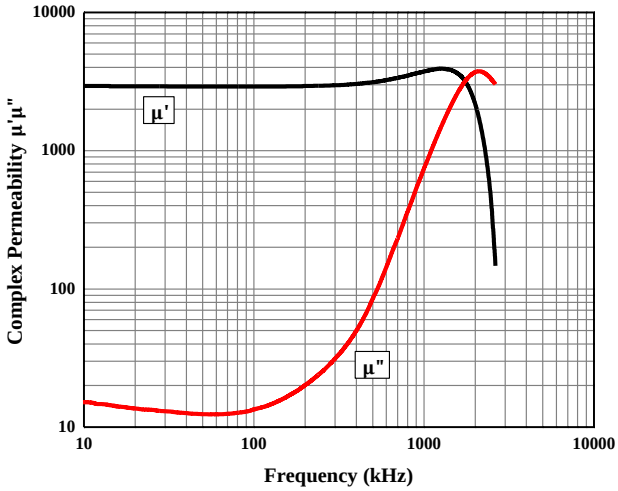
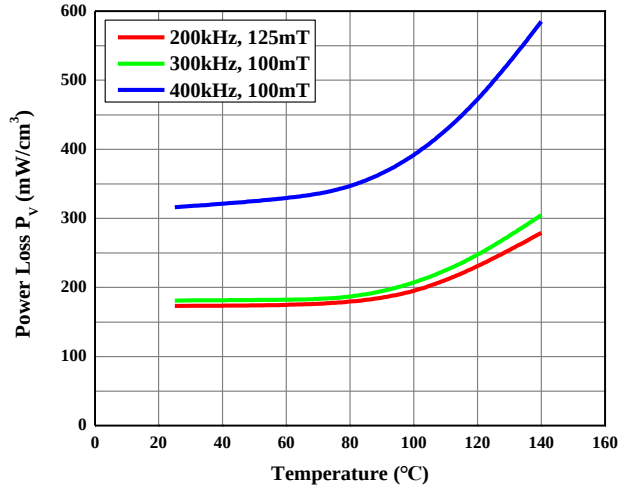
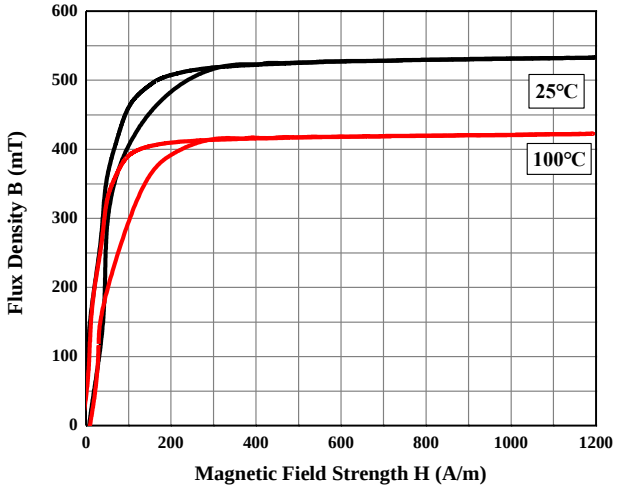
DMR96F 材料特性
DMR96F Material Characteristics

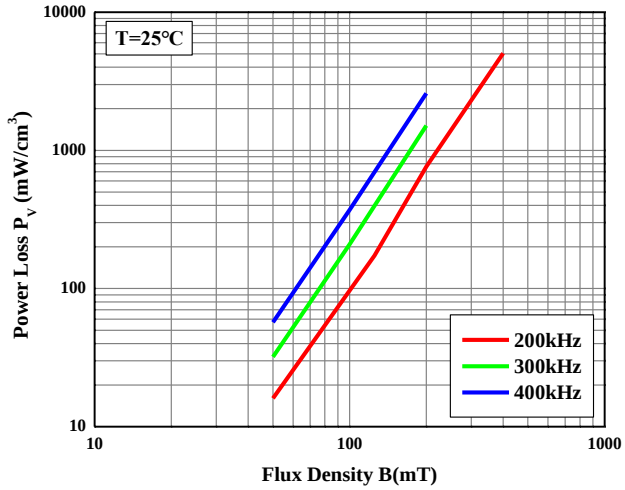
特性 CHARACTERISTICS	测试条件 CONDITIONS		典型值 VALUE
初始磁导率 μ_i Initial Permeability	f=10kHz, B<0.25mT	25℃	2700±25%
饱和磁感应强度 Bs (mT) Saturation Magnetic Flux Density	1194A/m 50Hz	25℃	530
		100℃	420
剩磁 Br (mT) Residual Magnetic Flux Density		25℃	55
		100℃	45
矫顽力 Hc (A/m) Coercive Force		25℃	10
		100℃	8
功耗 Pv (mW/cm^3) Power Loss	200kHz, 125mT	25℃	175
		60℃	175
		80℃	180
		100℃	190
		120℃	230
		140℃	280
	300kHz, 100mT	25℃	180
		60℃	185
		80℃	185
		100℃	205
		120℃	245
		140℃	305
	400kHz, 100mT	25℃	315
		60℃	330
		80℃	345
		100℃	390
		120℃	465
		140℃	590
居里温度 Tc (℃) Curie Temperature	f=10kHz, B<0.25mT		>230
密度 d (g/cm^3) Density		25℃	4.7

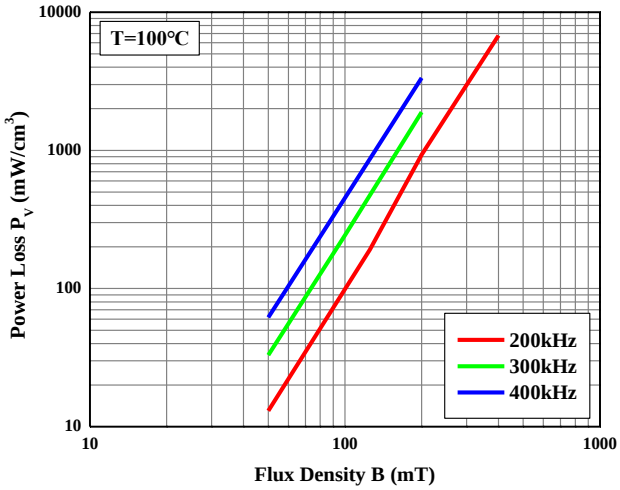

Initial Permeability μi
4000
3000
2000
1000
0
-50
0
50
100
150
200
250
300
Temperature (℃)

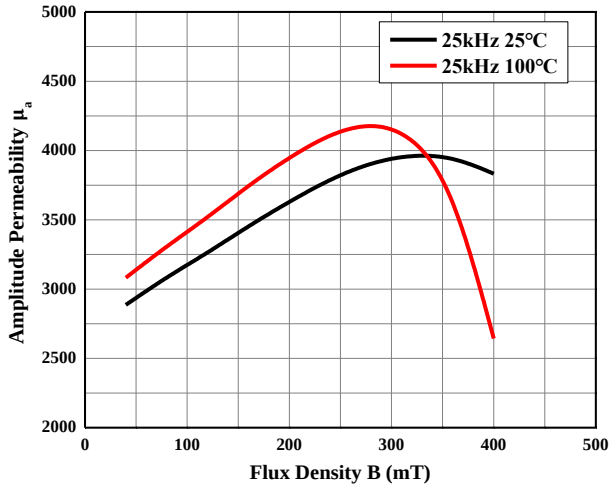

Complex Permeability μ'μ"
10000
1000
100
10
μ'
μ"
10
100
1000
10000
Frequency (kHz)


Power Loss Pv (mW/cm3)
600
500
400
300
200
100
0
200kHz, 125mT
300kHz, 100mT
400kHz, 100mT
0
20
40
60
80
100
120
140
160
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℃
200kHz
300kHz
400kHz
10
100
1000
Flux Density B(mT)


Power Loss Pv (mW/cm3)
10000
1000
100
10
T=100℃
200kHz
300kHz
400kHz
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.