

MnZn 功率铁氧体材料特性

MnZn Power Ferrite Material Characteristics

材料特性 Material Characteristics		单位 Unit		NH52W
初始磁导率 μ_i Initial Permeability				600±25%
饱和磁通密度 B_s Saturation Magnetic Flux Density @H=1194A/m		25℃	mT	500
		100℃	mT	420
剩余磁通密度 B_r Remanence Flux Density		25℃	mT	110
		100℃	mT	100
矫顽力 H_c Coercive force		25℃	A/m	45
		100℃	A/m	40
磁芯损耗 P_{cv} Core Loss	1MHz 50mT	25℃	kW/m ³	100
		100℃	kW/m ³	80
	3MHz 30mT	25℃	kW/m ³	220
		100℃	kW/m ³	200
	5MHz 20mT	25℃	kW/m ³	380
		100℃	kW/m ³	380
居里温度 T_c Curie Temperature		℃		>280
密度 d Density		kg/m ³		4.7x10 ³

注：以上数据是T12.5*7.5*7标准样环的典型数据，具体产品的性能会在此基础上有所调整。

损耗测试仪器为 SY8218 (N1=N2=3Ts)。

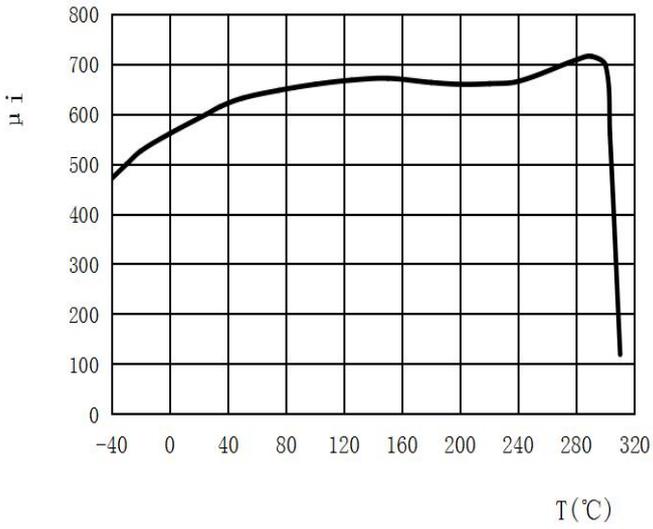


Fig1 Permeability vs. Temperature

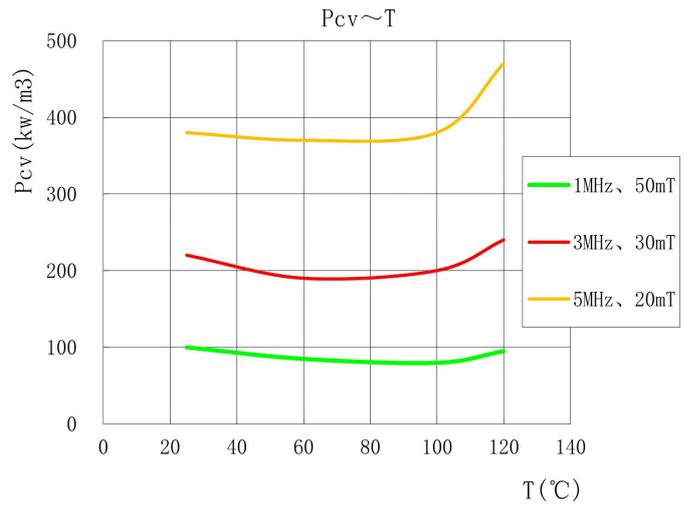


Fig.2 Power Loss vs. Temperature

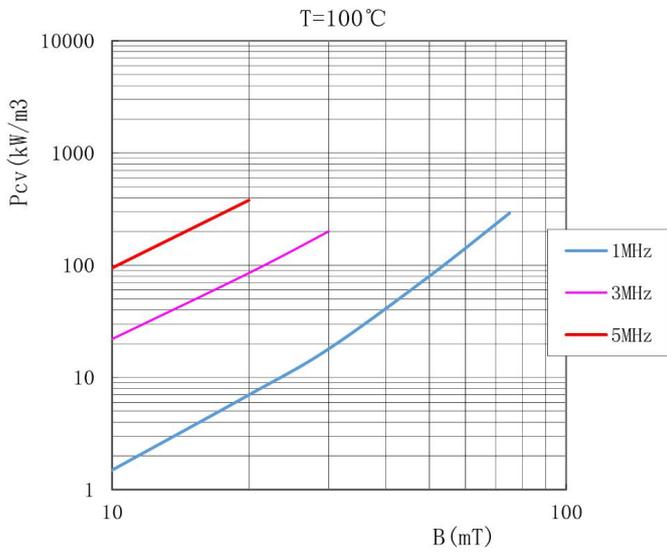


Fig.3 Power Loss vs. Flux Density(T=100°C)

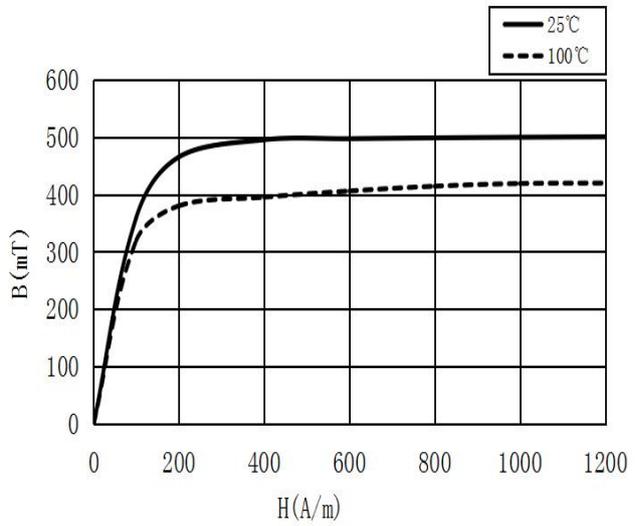


Fig.4 Magnetization Curves