

TM80 功率铁氧体材料 (POWER FERRITE MATERIAL TM80)

宽温度区间内低能量损耗密度，以及相对较高的饱和磁通密度，中高频率的多用途铁氧体材料，可用于电源变压器、电感和滤波器材料。可提供的各式形状和环形的产品外形。

A multi-purpose ferrite material for medium to high frequencies with low energy loss density within a wide temperature range, and relatively high saturation magnetic flux density. It can be used for power transformers, inductors, and filter materials. Various shapes and ring-shaped product forms are available.

特性 CHARACTERISTICS	測試條件 CONDITION		典型值 TYPICAL VALUE	單位 UNIT
初始磁導率 μ_i Initial Permeability	100KHz & <0.2mT		3000 ± 25%	
增幅磁導率 μ_a Amplitude Permeability	25KHz/400mT	25°C	> 4000	
	25KHz/320mT	100°C	> 4000	
飽和磁通密度 B_s Saturation Flux Density	1200 A/m 100Hz	25°C	520	mT
		100°C	420	
殘留磁通密度 B_r Remanence	1200 A/m 100Hz	25°C	80	mT
		100°C	60	
矯頑力 H_c Coercivity	1200 A/m 100Hz	25°C	10	A/m
		100°C	7	
相對損失因子 Loss Factor	100KHz & <0.2mT		<6	10^{-6}
居禮溫度 T_c Curie Temp.	100KHz & <0.2mT		>230	°C
密度 D Density	阿基米德法 Archimedes method		>4.8	g/cm ³
表面電阻 ρ Electrical Resistivity	直流電流 DC Current		>5.5	$\Omega \cdot m$
功率損耗 P_{cv} Power Loss	100KHz/200mT	25°C	350	kW/m ³
		100°C	330	
	300KHz/100mT	25°C	380	
		100°C	360	
	500KHz/50mT	25°C	200	
		100°C	200	

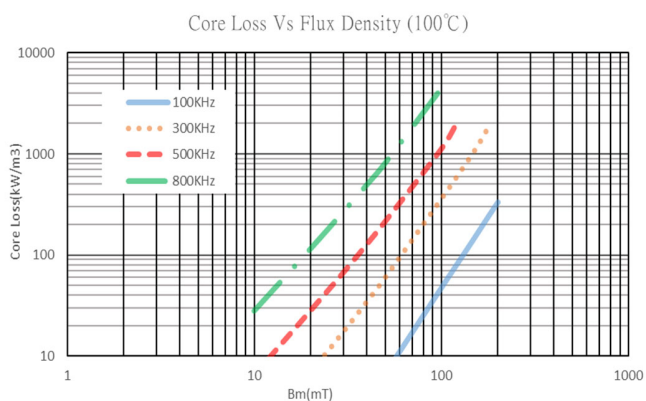
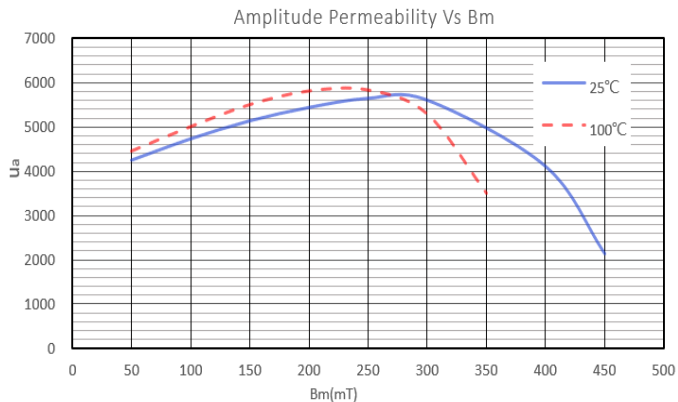
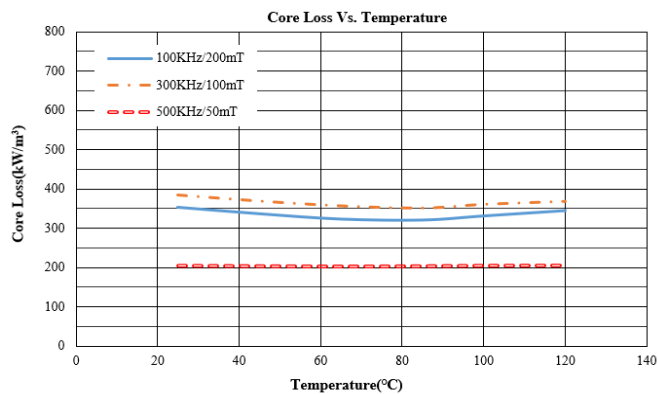
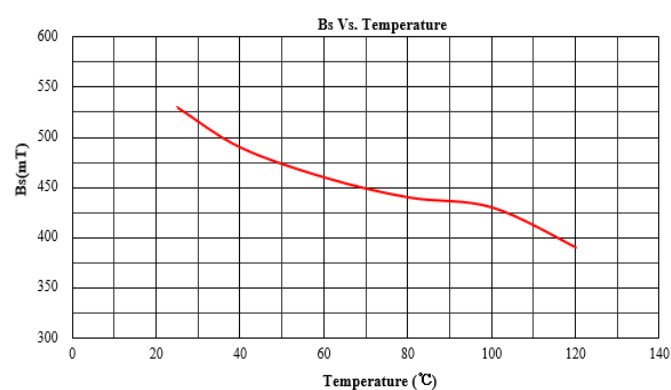
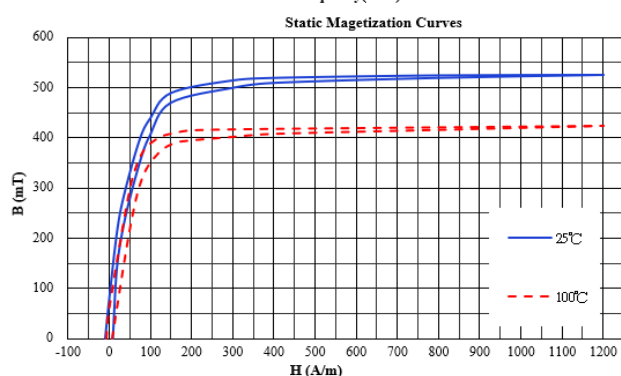
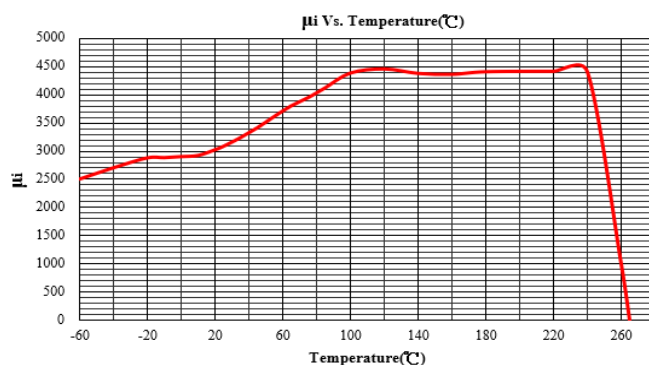
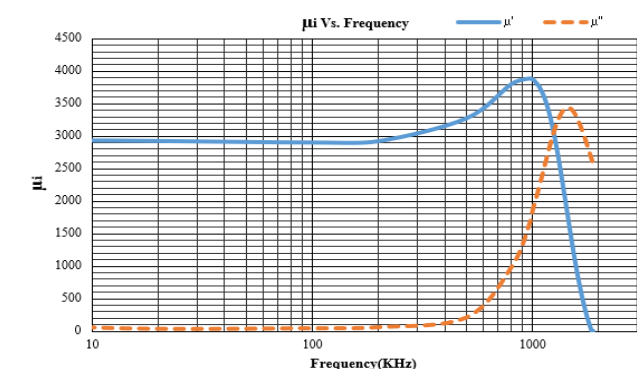
备注：各項數值均為環形磁芯 T25*15*8 測得的典型數值。由于幾何形狀和尺寸的影響，產品規格將與這些數據有所差異。

Note : All values are typical values measured for the toroidal magnetic core T25*15*8. Due to the influence of geometric shape and size, the product specifications may differ from these data.

目錄內容變更時不會另行通知，请务必索取能进一步确认详细特性、规格的规格书。

Data is subject to change without prior notice, please be sure to request a specification for further confirmation of detailed features and specifications.

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Steinmetz Model

$$P_{cv} = K * f^a * B_m^b$$

Temp	Freq.(KHz)	K	a	b
100	≅ 200	1.09E-07	1.7553	2.63056
100	≅ 500	4.03E-07	1.71695	2.40254

Unit: Pcv:Kw/m³ / Freq:KHz / Bm:mT