TM82 功率铁氧体材料 (POWER FERRITE MATERIAL TM82)

高磁通密度的锰锌铁氧体材料适用于需要承受高工作电流且频率较低的电路应用。典型的应用包括类A功率放大器、PFC电路、DC-DC转换器以及稳压器等。在这些电路中，锰锌铁氧体材料通常用作电感器，有助于调整电路中的电流和电压，提高系统的效率和性能，适合的产品形状为PQ/ER/RM。

High-flux density manganese-zinc ferrite materials are suitable for circuit applications requiring high operating currents and low frequencies. Typical applications include Class A power amplifiers, PFC circuits, DC-DC converters, and voltage regulators. In these circuits, manganese-zinc ferrite materials are commonly used as inductors to help regulate current and voltage, thereby enhancing system efficiency and performance. The suitable product shapes for these applications are PQ/ER/RM.

特性 CHARACTERISTICS	測試條件 CONDITION		典型值 TYPICAL VALUE	单位 UNIT
初始磁導率 u_i Initial Permeability	100KHz & <0.2mT		1200±25%	
增幅磁導率 u_a Amplitude Permeability	25KHz/400mT	25℃	> 4000	
	25KHz/320mT	100℃	> 2200	
飽和磁通密度 Bs Saturation Flux Density	1200 A/m 100Hz	25℃	600	mT
		100℃	500	
殘留磁通密度 Br Remanence	1200 A/m 100Hz	25℃	80	mT
		100℃	100	
矯頑力 Hc Coercivity	1200 A/m 100Hz	25℃	12	A/m
		100℃	10	
相對損失因子 Loss Factor	100KHz & <0.2mT		< 15	10^{-6}
居禮溫度 Tc Curie Temp.	100KHz & <0.2mT		> 300	℃
密度 D Density	阿基米德法 Archimedes method		4.95	g/cm^3
表面電阻 ρ Electrical Resistivity	直流电流 DC Current		> 4	Ω-m
功率損耗 Pcv Power Loss	25KHz/200mT	25℃	200	kW/m^3
		100℃	330	
	100KHz/200mT	25℃	900	
		100℃	1600	

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异。

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.

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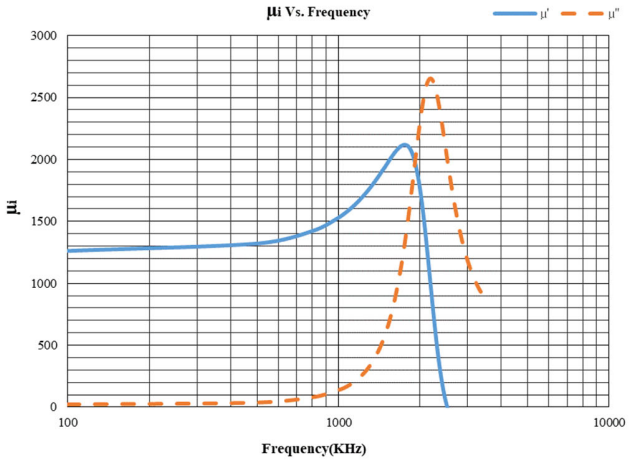

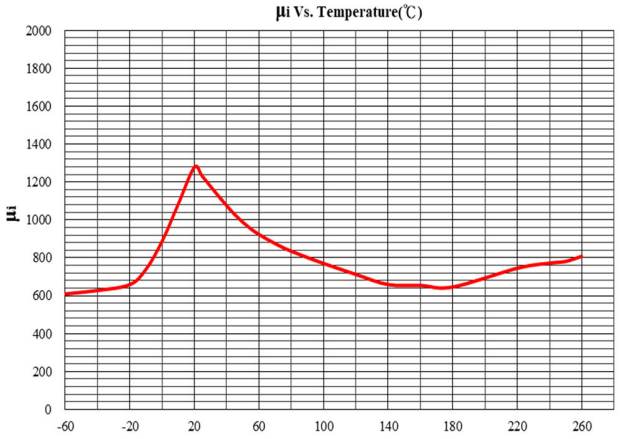

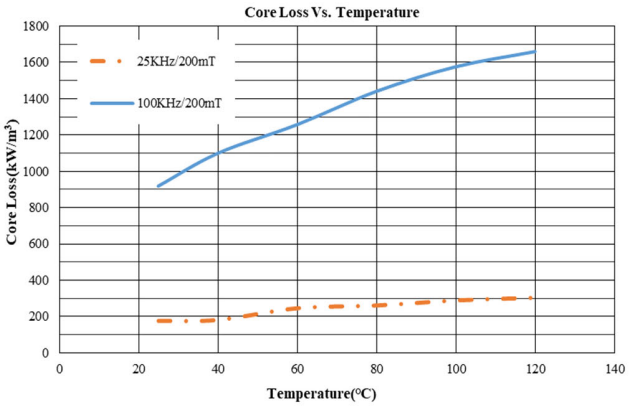

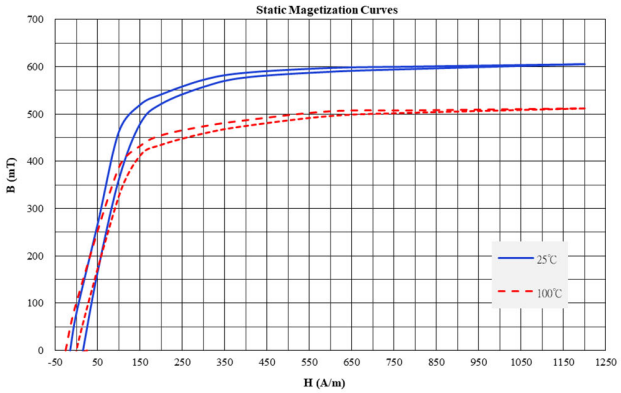

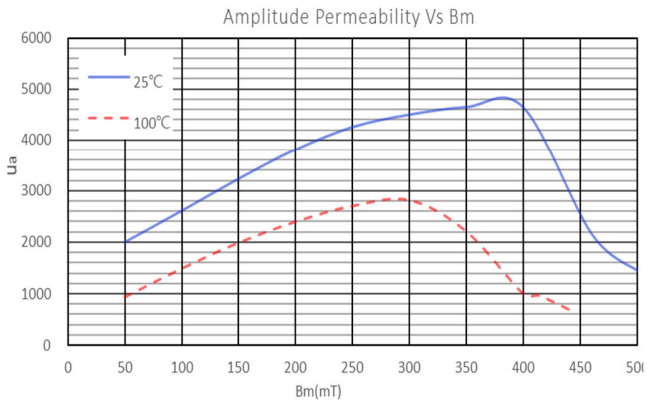

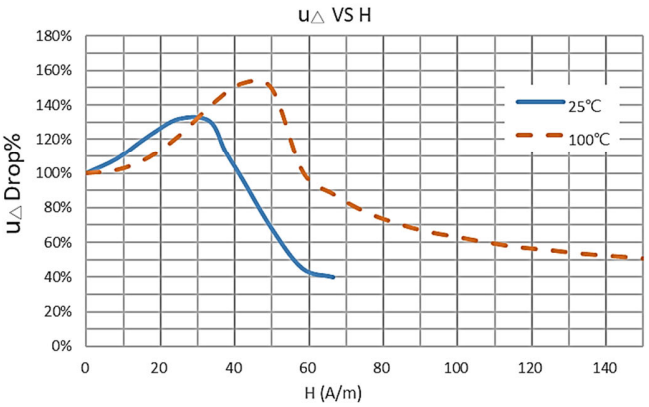

如需更多資訊或有任何需求，請隨時與我們的業務人員聯繫。我們將竭誠為您服務。
For more information or any inquiries, please feel free to contact our sales representatives. We are dedicated to serving you.
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