

M63 高頻穩定材料 (HIGH FREQUENCY STABLE MATERIAL)

M63 為鎳鋅鐵氧體材料，初始導磁率 (μ_i) 約 180，飽和磁通密度 (B_s) 約 365 mT，居禮溫度高於 300 °C。在中高導磁率下仍能保持良好 Q 值，適合 中低頻至高頻功率電感、射頻濾波器，以及工業電子能量傳輸模組，兼顧導磁率與損耗控制。

M63 is a NiZn ferrite material with an initial permeability (μ_i) of about 180, a saturation flux density (B_s) of 365 mT, and a Curie temperature above 300 °C. It maintains good Q factor even at relatively high permeability, making it suitable for **low- to mid-frequency power inductors, RF filters, and energy transfer modules in industrial electronics**, balancing permeability and loss control.

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		180	
Applicable frequency (適用頻率)			<15	MHz
飽和磁通密度 B_s Saturation Flux Density	3000 A/m 100Hz	25°C	365	mT
		100°C	290	
殘留磁通密度 B_r Remanence	3000 A/m 100Hz	25°C	240	mT
		100°C	190	
矯頑力 H_c Coercivity	3000 A/m 100Hz	25°C	200	A/m
		100°C	150	
$\alpha \mu \gamma$ (溫度系數)	20-60°C		10	$\times 10^{-6}$
相對損失因數 Loss Factor	0.5MHz & <0.2mT		50	$\times 10^{-6}$
	5.0MHz & <0.2mT		80	
居禮溫度 T_c Curie Temp.	100KHz & <0.2mT		>300	°C
密度 D Density	阿基米德法 Archimedes method		4.9	g/cm ³
表面電阻 ρ Electrical Resistivity	直流電流 DC Current		10^7	$\Omega\cdot m$

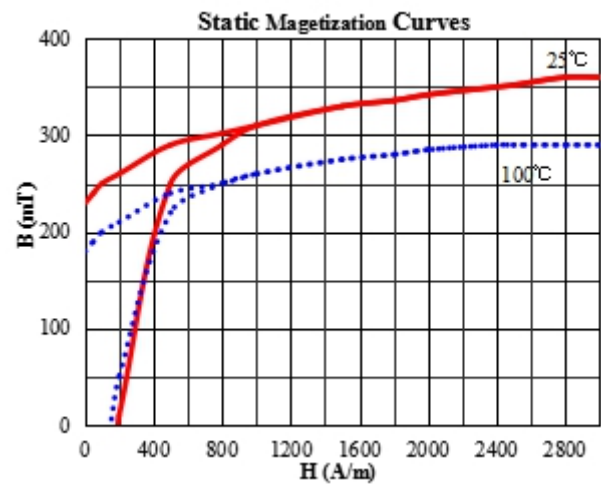
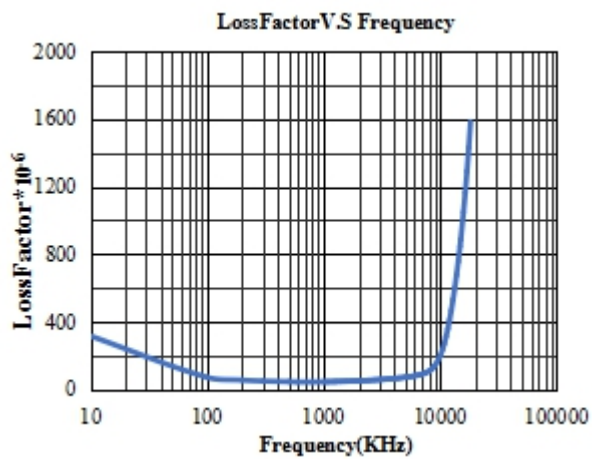
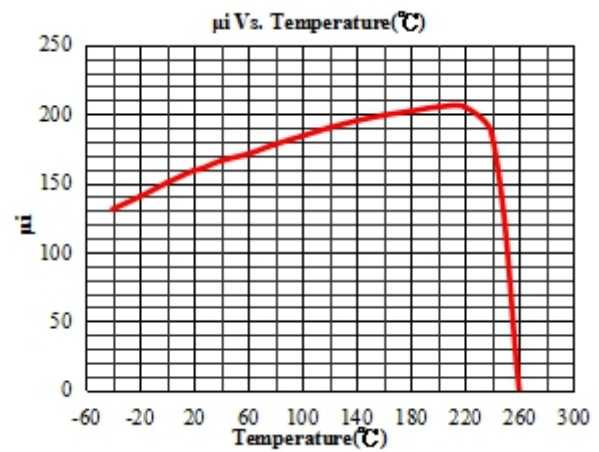
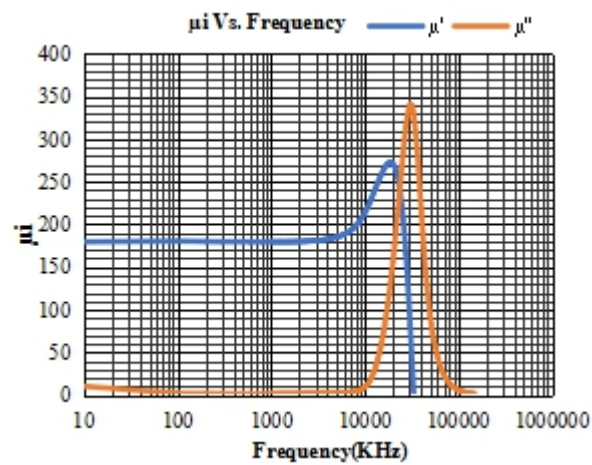
備註：各項數值均為環形磁芯 T31*19*8 測得的典型數值，由於幾何形狀和尺寸的影響，產品規格將與這些數據有所差異。

Note : All values are typical values measured for the toroidal magnetic core T31*19*8. Due to the influence of geometric shape and size, the product specifications may differ from these data.

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.

TEL : 86-762-4329901 EX.605 E-mail : sales6@takferrite.com



目錄內容變更時不會另行通知，請務必索取能進一步確認詳細特性、規格的規格書。

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