

M9A 高頻穩定材料 (HIGH FREQUENCY STABLE MATERIAL)

M9A 為鎳鋅鐵氧體材料，初始導磁率 (μ_i) 約 50，飽和磁通密度 (B_s) 約 340 mT，居禮溫度高於 300 °C。在 5 – 50 MHz 領域展現優異 Q 值，特別適合 短波與中頻 RF 濾波器、功率級射頻扼流圈，以及調諧電感，兼具能量承載與低損耗特性。

M9A is a NiZn ferrite material with an initial permeability (μ_i) of about 50, a saturation flux density (B_s) of 340 mT, and a Curie temperature above 300 °C. It demonstrates excellent Q factor in the 5 – 50 MHz range, making it ideal for shortwave and mid-frequency RF filters, power-level RF chokes, and tuning inductors, combining energy-handling capability with low loss.

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		50±25%	
Applicable frequency (適用頻率)			<50	MHz
飽和磁通密度 B_s Saturation Flux Density	3000 A/m 100Hz	25°C	340	mT
		100°C	300	
殘留磁通密度 B_r Remanence	3000 A/m 100Hz	25°C	230	mT
		100°C	190	
矯頑力 H_c Coercivity	3000 A/m 100Hz	25°C	590	A/m
		100°C	580	
$\alpha \mu \gamma$ (溫度系數)	20-60°C		60	$\times 10^{-6}$
相對損失因數 Loss Factor	5.0MHz & <0.2mT		100	$\times 10^{-6}$
	20MHz & <0.2mT		120	
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	$\Omega\text{-m}$

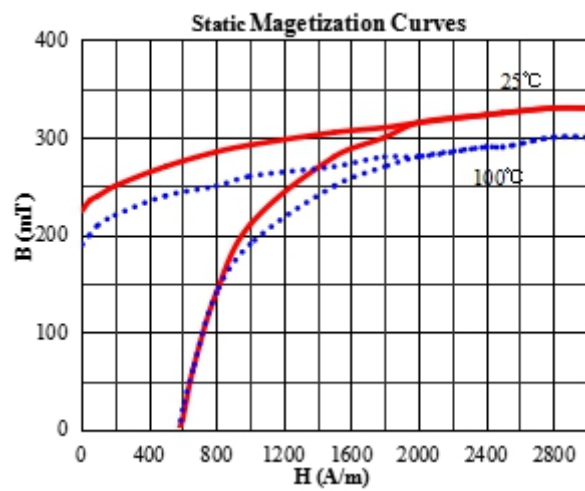
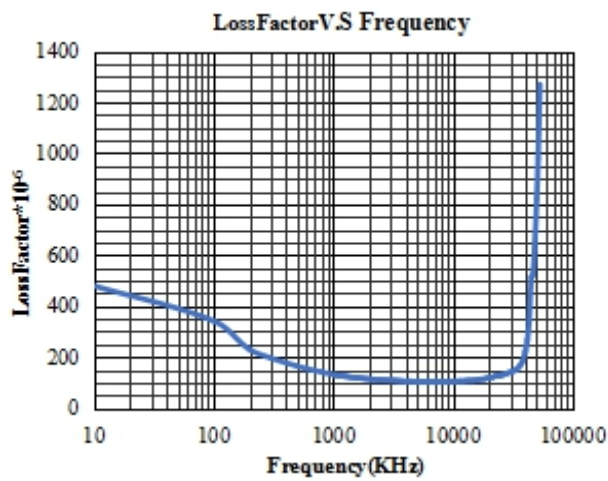
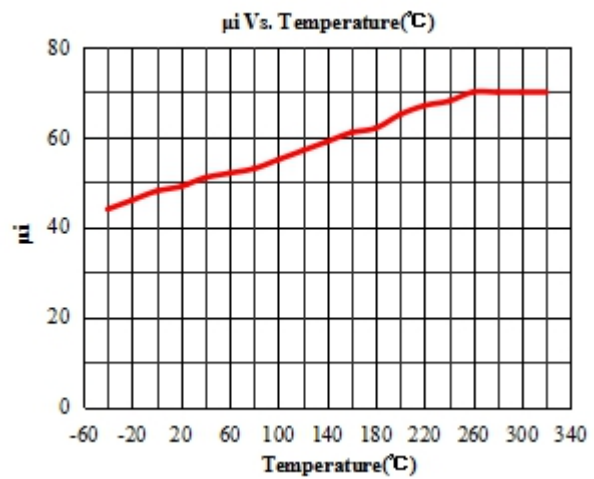
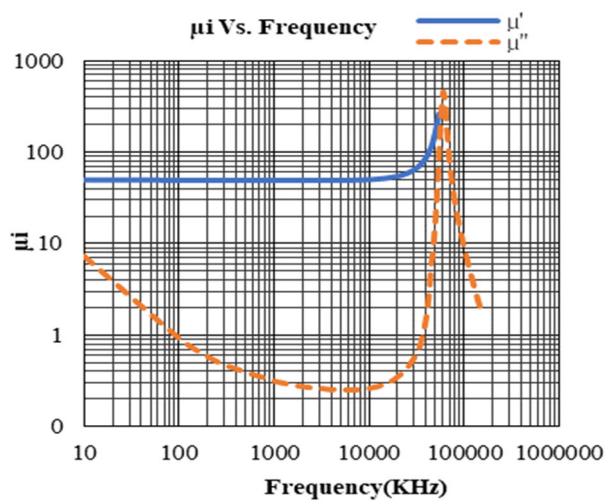
備註：各項數值均為環形磁芯 T31*19*8 測得的典型數值，由於幾何形狀和尺寸的影響，產品規格將與這些數據有所差異。

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.

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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.