

Q1C1 高頻穩定材料 (HIGH FREQUENCY STABLE MATERIAL)

Q1C1 為鎳鋅鐵氧體材料，初始導磁率 (μ_i) 約 250，飽和磁通密度 (B_s) 約 335 mT，居禮溫度高於 140 °C。其中高 μ_i 與穩定 Q 特性，使其特別適合 低頻 EMI 濾波器、RF 調諧元件，以及需要兼顧小型化與高效能的電源模組。

Q1C1 is a NiZn ferrite material with an initial permeability (μ_i) of about 250, a saturation flux density (B_s) of 335 mT, and a Curie temperature above 140 °C. With medium-high permeability and stable Q factor, it is particularly suitable for **low-frequency EMI filters, RF tuning components, and power modules requiring miniaturization and high efficiency.**

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		250±25%	
Applicable frequency (適用頻率)			<10	MHz
飽和磁通密度 B_s Saturation Flux Density	3000 A/m	25°C	335	mT
	100Hz	100°C	240	
殘留磁通密度 B_r Remanence	3000 A/m	25°C	200	mT
	100Hz	100°C	130	
矯頑力 H_c Coercivity	3000 A/m	25°C	140	A/m
	100Hz	100°C	140	
$\alpha \mu \gamma$ (溫度系數)	20-60°C		10	$\times 10^{-6}$
相對損失因數 Loss Factor	0.5MHz & <0.2mT		35	$\times 10^{-6}$
	2.5MHz & <0.2mT		45	
居禮溫度 T_c Curie Temp.	100KHz & <0.2mT		>140	°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。

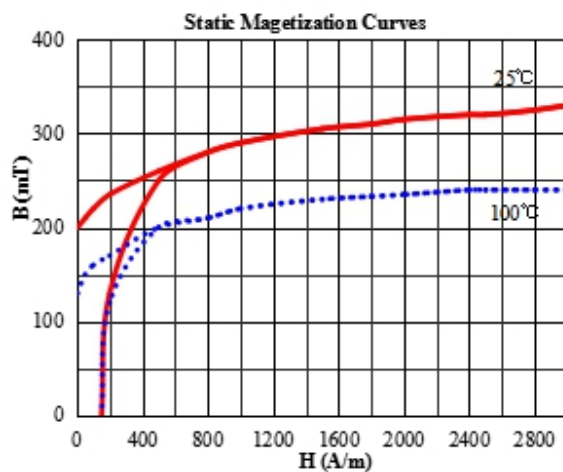
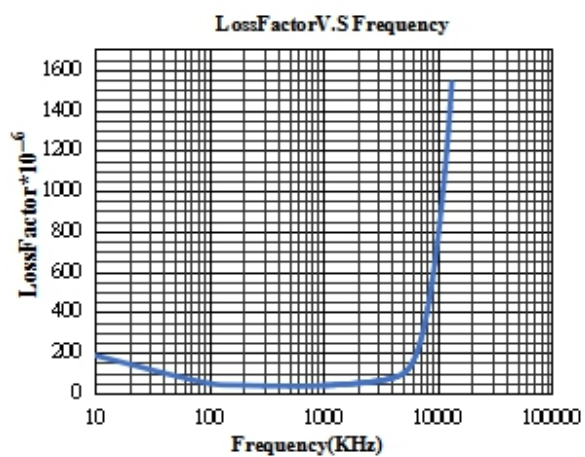
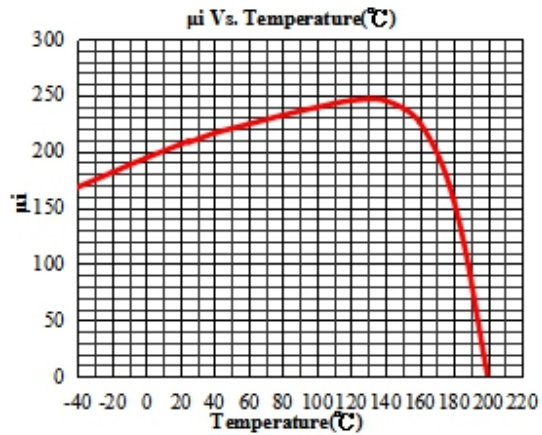
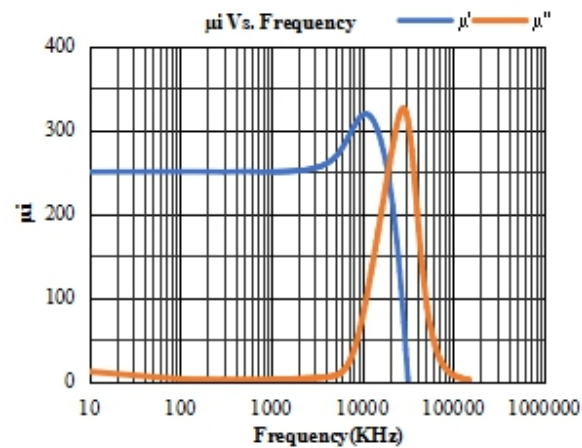
Note : All values are typical values measured for the toroidal magnetic core T31*19*8. Due to the influence of geometric shape and size, the product specifications may differ from these data.

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.

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