

高頻穩定材料 (HIGH FREQUENCY STABLE MATERIAL)

V4F1 高頻穩定材料 (HIGH FREQUENCY STABLE MATERIAL)

V4F1 為鎳鋅鐵氧體材料，初始導磁率 (μ_i) 約 10，飽和磁通密度 (B_s) 約 150 mT，居禮溫度高於 320 °C。其極低導磁率與優異高頻特性，使其適合應用於 UHF 頻段以上的抑制磁珠、超高頻 RF 濾波器，以及高速訊號線的共模噪聲抑制，同時確保低插入損耗與穩定的電氣性能。

V4F1 is a NiZn ferrite material with an initial permeability (μ_i) of about 10, a saturation flux density (B_s) of 150 mT, and a Curie temperature above 320 °C. With ultra-low permeability and excellent high-frequency characteristics, it is well-suited for suppression beads in the UHF band and above, ultra-high-frequency RF filters, and common-mode noise suppression in high-speed signal lines, ensuring low insertion loss and stable electrical performance.

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		10±25%	
Applicable frequency (適用頻率)			<150	MHz
飽和磁通密度 B_s Saturation Flux Density	3000 A/m 100Hz	25°C	150	mT
		100°C	140	
殘留磁通密度 B_r Remanence	3000 A/m 100Hz	25°C	95	mT
		100°C	90	
矯頑力 H_c Coercivity	3000 A/m 100Hz	25°C	1450	A/m
		100°C	1400	
$\alpha \mu \gamma$ (溫度系數)	20-60°C		40	$\times 10^{-6}$
相對損失因數 Loss Factor	25MHz & <0.2mT		600	$\times 10^{-6}$
	100MHz & <0.2mT		700	
居禮溫度 T_c Curie Temp.	100KHz & <0.2mT		>320	°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*13 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。

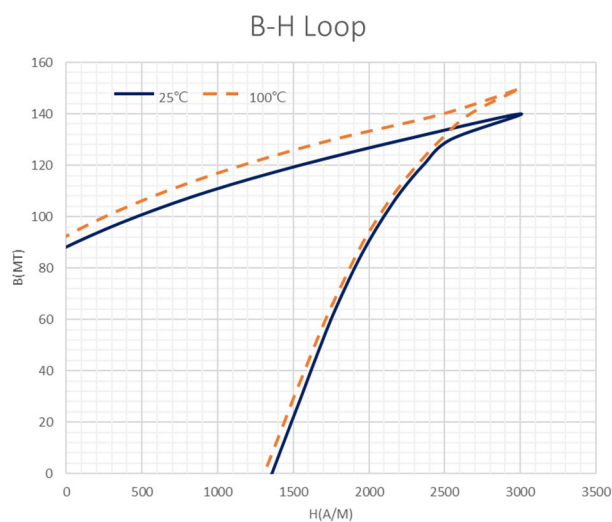
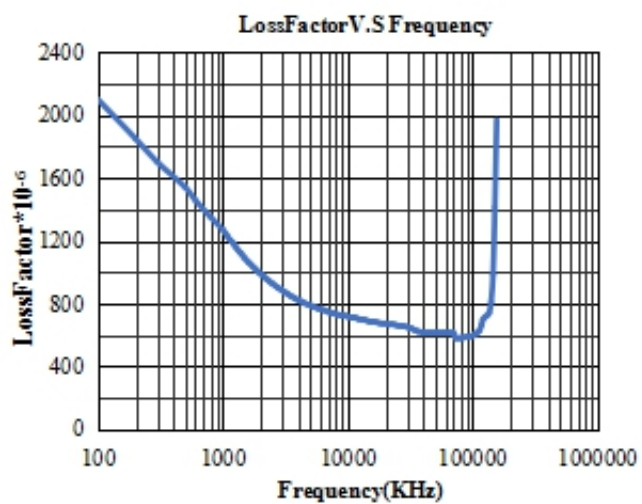
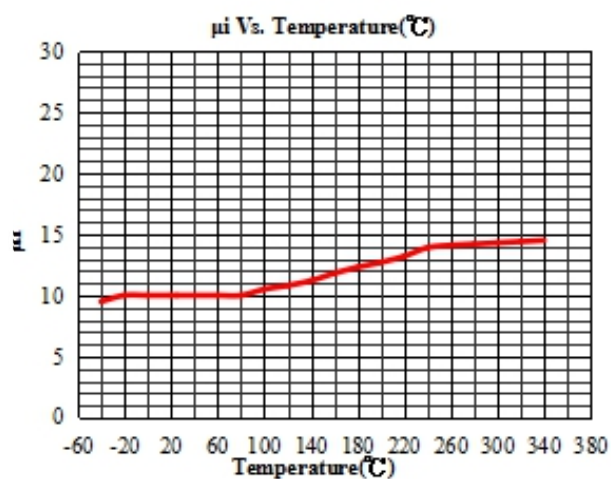
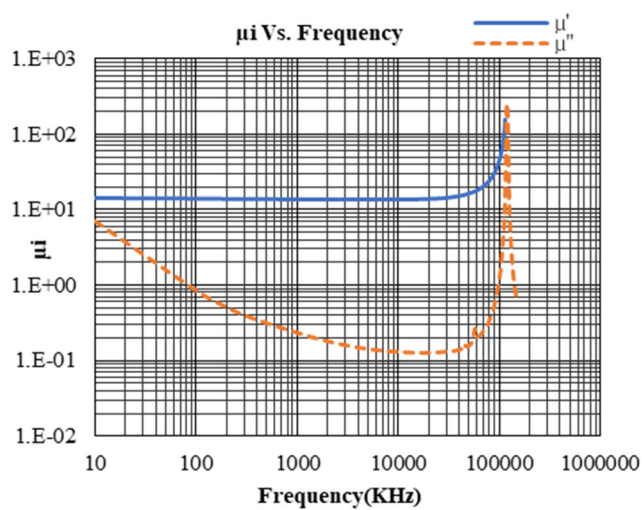
Note: All values are typical values measured for the toroidal magnetic core T31*19*13. Due to the influence of geometric shape and size, the product specifications may differ from these data.

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