

V2F1 高頻穩定材料 (HIGH FREQUENCY STABLE MATERIAL)

V2F1 為鎳鋅鐵氧體材料，初始導磁率 (μ_i) 約 30，飽和磁通密度 (B_s) 約 310 mT，居禮溫度高於 300 °C。其高居禮溫度與穩定 Q 值，適合 90 MHz 以下的高頻濾波器、RF 諧振器件，以及中頻段的低損耗射頻電感，在嚴苛溫度條件下仍能維持可靠性能。

V2F1 is a NiZn ferrite material with an initial permeability (μ_i) of about 30, a saturation flux density (B_s) of 310 mT, and a Curie temperature above 300 °C. With high Curie temperature and stable Q factor, it is suitable for high-frequency filters below 90 MHz, RF resonant devices, and mid-frequency low-loss inductors, maintaining reliable performance even under harsh temperature conditions.

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		30±25%	
Applicable frequency (適用頻率)			<90	MHz
飽和磁通密度 B_s Saturation Flux Density	3000 A/m 100Hz	25°C	310	mT
		100°C	270	
殘留磁通密度 B_r Remanence	3000 A/m 100Hz	25°C	180	mT
		100°C	160	
矯頑力 H_c Coercivity	3000 A/m 100Hz	25°C	610	A/m
		100°C	600	
$\alpha \mu \gamma$ (溫度系數)	20-60°C		60	$\times 10^{-6}$
相對損失因數 Loss Factor	10MHz & <0.2mT		160	$\times 10^{-6}$
	50MHz & <0.2mT		270	
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。

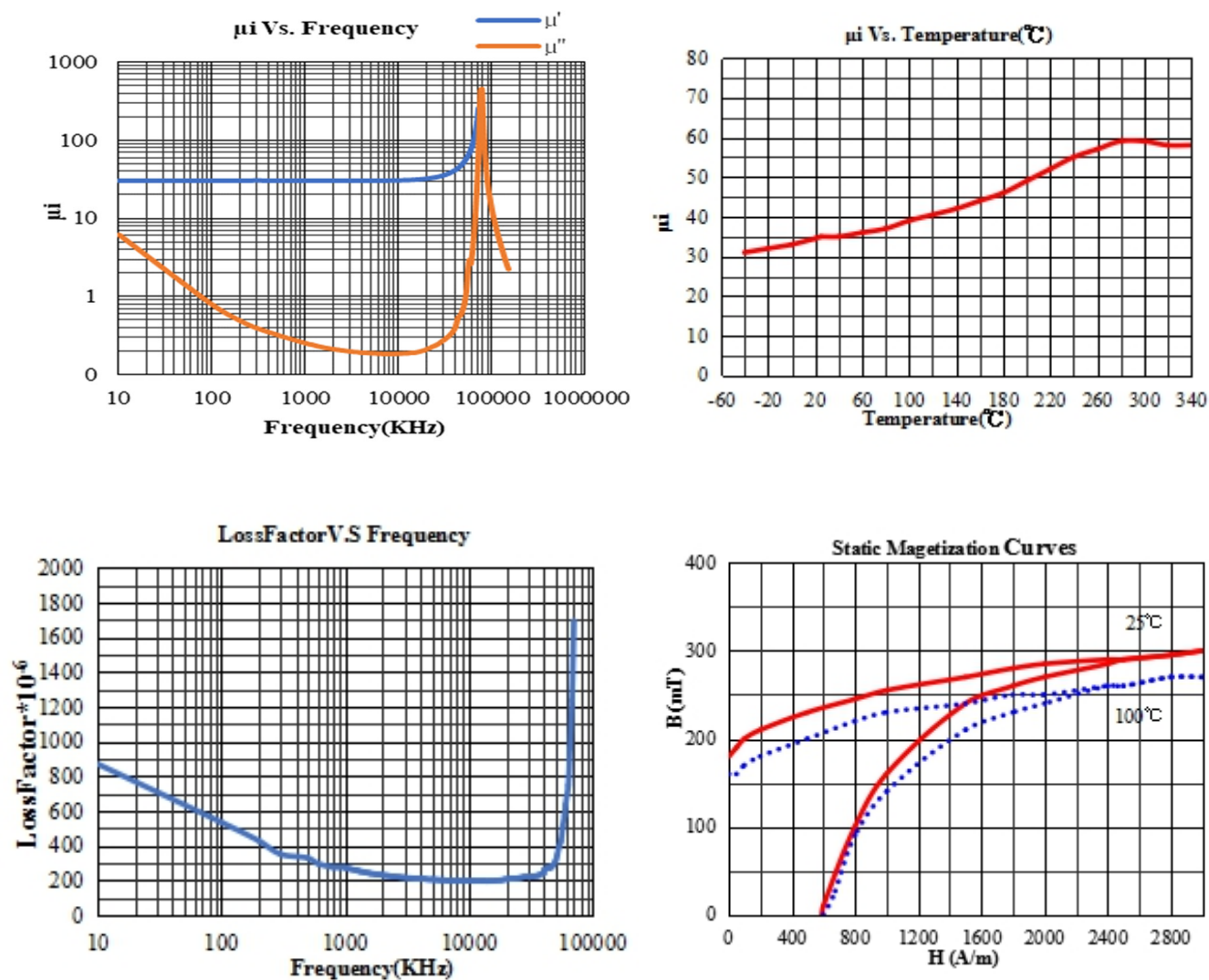
Note : All values are typical values measured for the toroidal magnetic core T31*19*8. Due to the influence of geometric shape and size, the product specifications may differ from these data.

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