

SL80 寬溫穩定材料 WIDE TEMP STABLE MATERIALS

為鎳鋅鐵氧體材料，初始導磁率 (μ_i) 約 800，飽和磁通密度 (B_s) 約 350 mT，居里溫度高於 170 °C。具更高的導磁率與良好的電感穩定性，特別適合大電流功率電感與濾波器，應用於電源管理模組及高效率能源轉換器。

SL80 is a NiZn ferrite material with an initial permeability (μ_i) of about 800, a saturation flux density (B_s) of 350 mT, and a Curie temperature above 170 °C. With higher permeability and stable inductance characteristics, it is especially suitable for high-current power inductors and filters, making it ideal for power management modules and high-efficiency energy converters.

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		800±25%	
飽和磁通密度 B_s Saturation Flux Density	3000 A/m 100Hz	25°C	350	mT
		100°C	260	
殘留磁通密度 B_r Remanence	3000 A/m 100Hz	25°C	190	mT
		100°C	109	
矯頑力 H_c Coercivity	3000 A/m 100Hz	25°C	50.5	A/m
		100°C	44.5	
$\alpha \mu \gamma$ (溫度系數)	-40-140°C		0~4	$\times 10^{-6}$
相對損失因子 Loss Factor	0.1MHz & <0.2mT		15	$\times 10^{-6}$
	1.0MHz & <0.2mT		30	
居禮溫度 T_c Curie Temp.	100KHz & <0.2mT		>170	°C
密度 D Density	阿基米德法 Archimedes method		5.0	g/cm ³
表面電阻 ρ Electrical Resistivity	直流電流 DC Current		10^7	$\Omega\text{-m}$

备注：各項數值均為環形磁芯 T22*14*8 測得的典型數值。由于幾何形狀和尺寸的影響，產品規格將與這些數據有所差異。

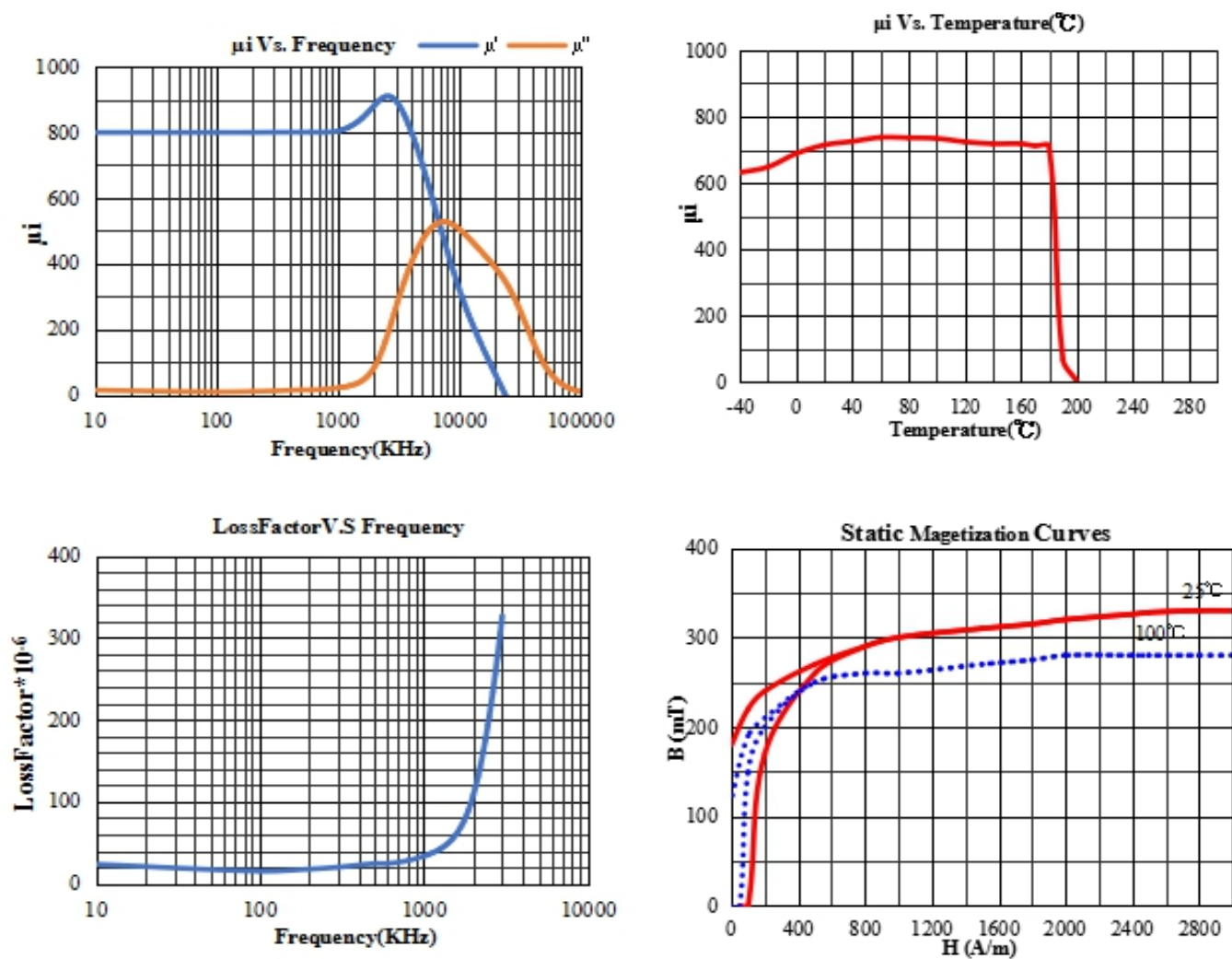
Note : All values are typical values measured for the toroidal magnetic core T22*14*8. Due to the influence of geometric shape and size, the product specifications may differ from these data.

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.