

G5B 高導磁高磁通 EMI 材料 HIGH PEAM. & HIGH FLUX &EMI MATERIAL

G5B 為鎳鋅鐵氧體材料，初始導磁率 (μ_i) 約 1000，飽和磁通密度 (B_s) 約 390 mT，居裡溫度高於 180 °C。其特性在於相較 G5A 具有更高的導磁率與稍高的飽和磁通密度，因此在 EMI 共模/差模應用中能展現更高阻抗，並在功率電感中提供更高的能量儲存與承載能力。G5B 屬於廣泛適用的通用型材料，可用於電源模組、電流補償電感、共模濾波器以及差模濾波器，兼顧電流承載力與 EMI 抑制。

G5B is a NiZn ferrite material with an initial permeability (μ_i) of about 1000, a saturation flux density (B_s) of around 390 mT, and a Curie temperature above 180 °C. Compared with G5A, it offers higher permeability and slightly higher saturation flux density, thereby providing greater impedance in EMI common-mode/differential-mode applications and enabling higher energy storage and current handling capability in power inductors. G5B is a versatile, general-purpose material suitable for power modules, current-compensated inductors, common-mode filters, and differential-mode filters, balancing current-carrying capacity with EMI suppression.

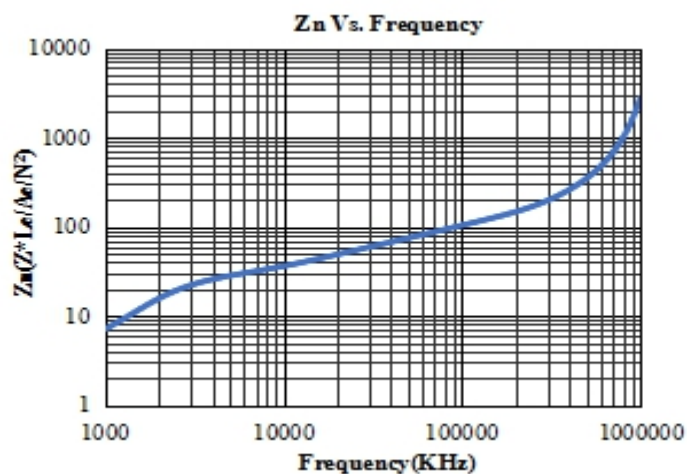
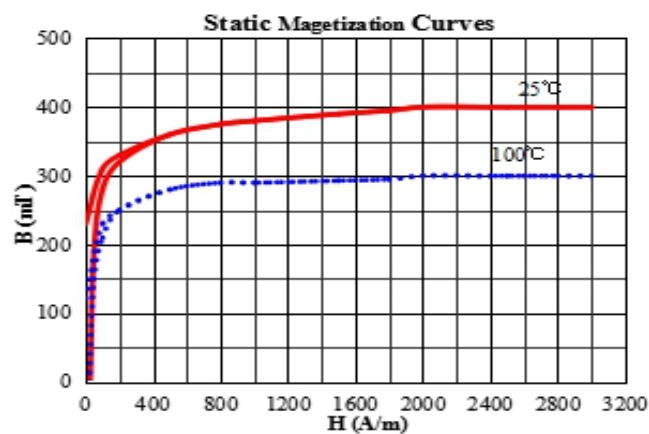
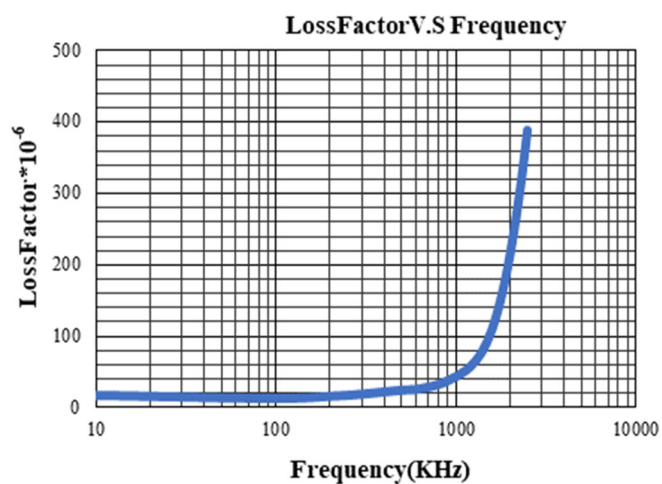
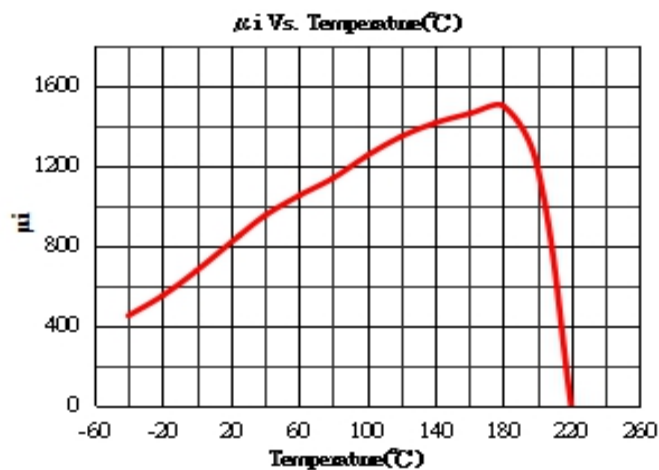
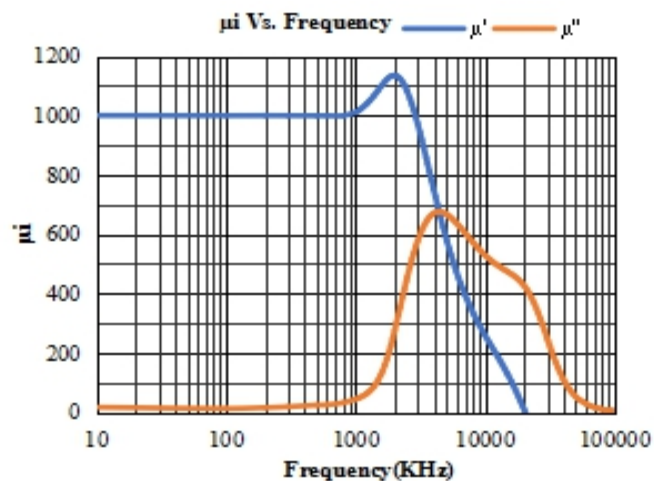
特性 CHARACTERISTICS	測試條件 CONDITION		典型值 TYPICAL VALUE	單位 UNIT
初始磁導率 μ_i Initial Permeability	100KHz & <0.2mT		1000±25%	
飽和磁通密度 B_s Saturation Flux Density	3000 A/m	25°C	390	mT
	100Hz	100°C	300	
殘留磁通密度 B_r Remanence	3000 A/m	25°C	235	mT
	100Hz	100°C	150	
矯頑力 H_c Coercivity	3000 A/m	25°C	25	A/m
	100Hz	100°C	20	
$\alpha \mu \gamma$ (溫度系數)	20-60°C		8	$\times 10^{-6}$
相對損失因數 Loss Factor	0.1MHz & <0.2mT		15	$\times 10^{-6}$
	1.0MHz & <0.2mT		45	
居禮溫度 T_c Curie Temp.	100KHz & <0.2mT		>180	°C
密度 D Density	阿基米德法 Archimedes method		5.1	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.

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.



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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