

低鎳及鎂鋅材料 LOW-NICKEL AND MAGNESIUM-ZINC MATERIAL

MGB1 鎳鎂鋅材料 NI-MG-ZN MATERIAL

MGB1 為鎳鎂鋅鐵氧體材料，初始導磁率 (μ_i) 約 350，飽和磁通密度 (B_s) 約 380 mT，居禮溫度高於 220 °C。其特點是中等導磁率、低損耗與高居禮溫度，適合 **寬頻 EMI 抑制、高速數據線磁珠，以及中高頻濾波電感**，能在高溫與高頻環境下保持穩定性能。

MGB1 is a Ni - Mg - Zn ferrite material with an initial permeability (μ_i) of about 350, a saturation flux density (B_s) of 380 mT, and a Curie temperature above 220 °C. Featuring medium permeability, low loss, and high Curie temperature, it is suitable for **broadband EMI suppression, high-speed data line beads, and mid- to high-frequency filter inductors**, maintaining stable performance under high-temperature and high-frequency 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		350±25%	
飽和磁通密度 B_s Saturation Flux Density	3000 A/m	25°C	380	mT
	100Hz	100°C	320	
殘留磁通密度 B_r Remanence	3000 A/m	25°C	250	mT
	100Hz	100°C	180	
矯頑力 H_c Coercivity	3000 A/m	25°C	18	A/m
	100Hz	100°C	15	
$\alpha \mu \gamma$ (溫度系數)	20-60°C		25	$\times 10^{-6}$
相對損失因數 Loss Factor	0.1MHz & <0.2mT		15	$\times 10^{-6}$
	2.0MHz & <0.2mT		35	
居禮溫度 T_c Curie Temp.	100KHz & <0.2mT		>220	°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	$\Omega\text{-m}$

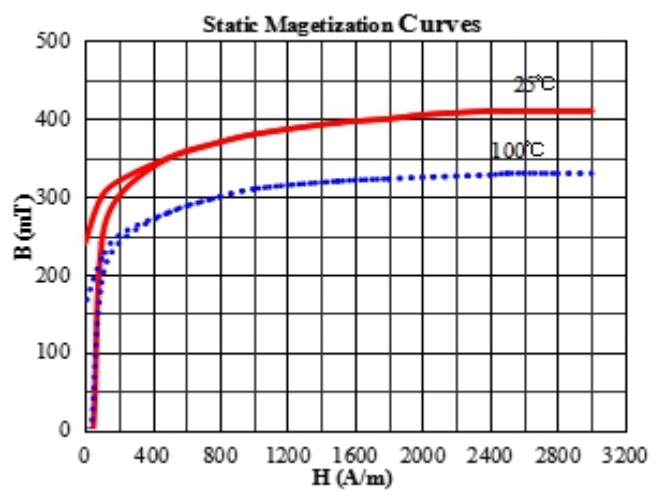
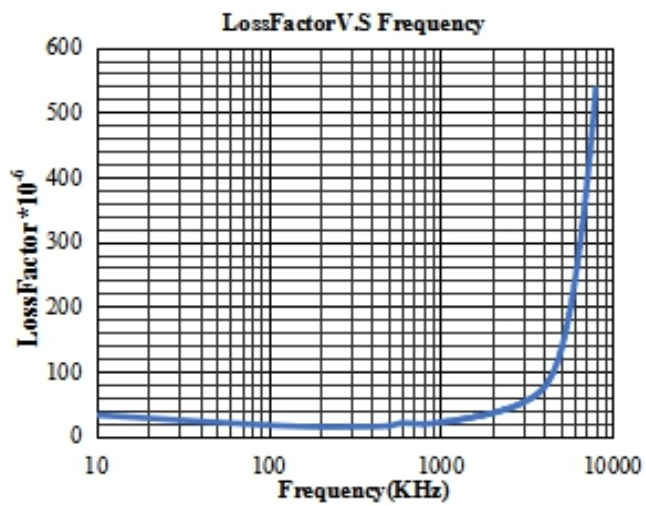
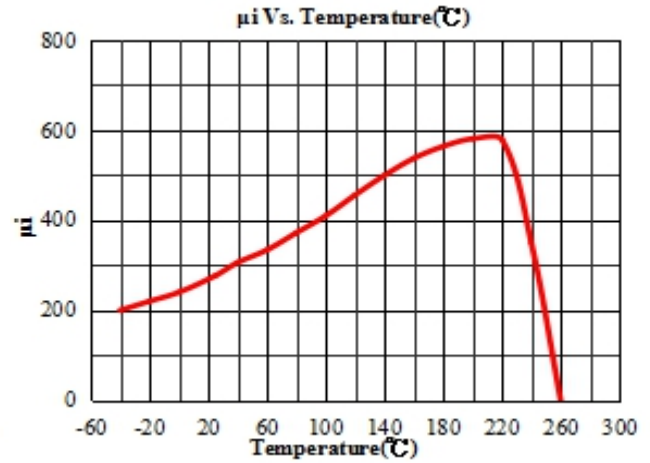
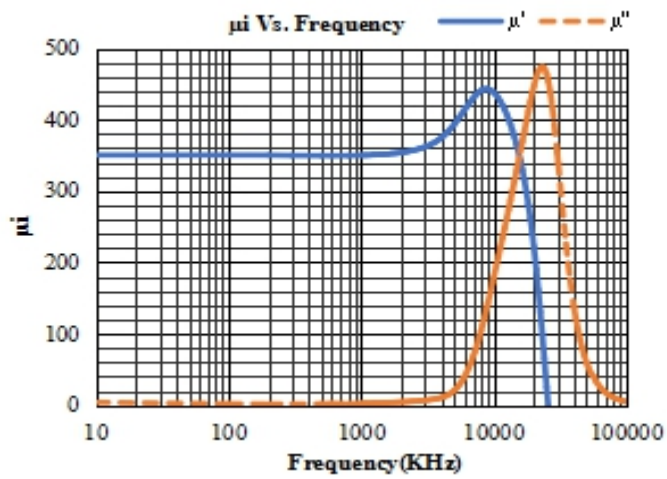
備註：各項數值均為環形磁芯 T31*19*8 測得的典型數值，由於幾何形狀和尺寸的影響，產品規格將與這些數據有所差異。

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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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.