

MF1 鎂鋅材料 MG-ZN MATERIAL

MF1 為鎂鋅鐵氧體材料，初始導磁率 (μ_i) 約 180，飽和磁通密度 (B_s) 約 350 mT，居禮溫度高於 210 °C。其特徵為低導磁率、低損耗與高溫穩定性，適合 **RF/IF 濾波器、諧振電感，以及高頻訊號線 EMI 抑制**，能兼顧低失真與可靠性。

MF1 is a Mg - Zn ferrite material with an initial permeability (μ_i) of about 180, a saturation flux density (B_s) of 350 mT, and a Curie temperature above 210 °C. With low permeability, low loss, and high thermal stability, it is suitable for **RF/IF filters, resonant inductors, and high-frequency EMI suppression on signal lines**, ensuring both low distortion and reliability.

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		180±25%	
飽和磁通密度 B_s Saturation Flux Density	3000 A/m 100Hz	25°C	350	mT
		100°C	185	
殘留磁通密度 B_r Remanence	3000 A/m 100Hz	25°C	240	mT
		100°C	85	
矯頑力 H_c Coercivity	3000 A/m 100Hz	25°C	25	A/m
		100°C	15	
$\alpha \mu \gamma$ (溫度系數)	20-60°C		35	$\times 10^{-6}$
相對損失因數 Loss Factor	0.1MHz & <0.2mT		55	$\times 10^{-6}$
	0.5MHz & <0.2mT		70	
居禮溫度 T_c Curie Temp.	100KHz & <0.2mT		>210	°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	$\Omega\text{-m}$

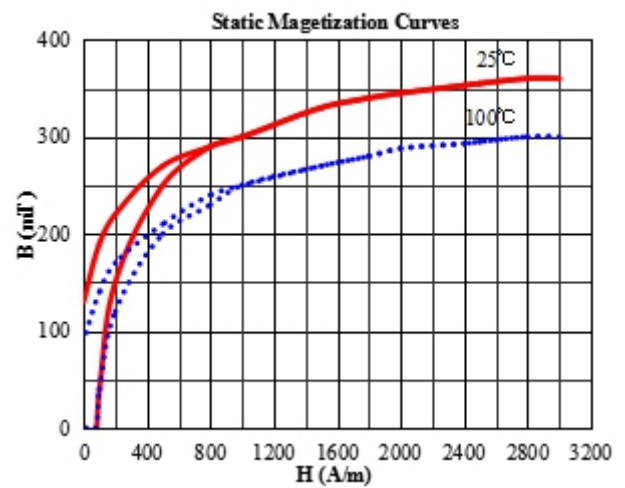
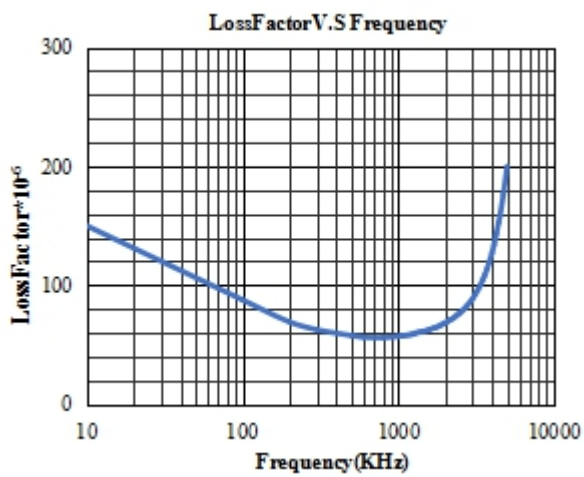
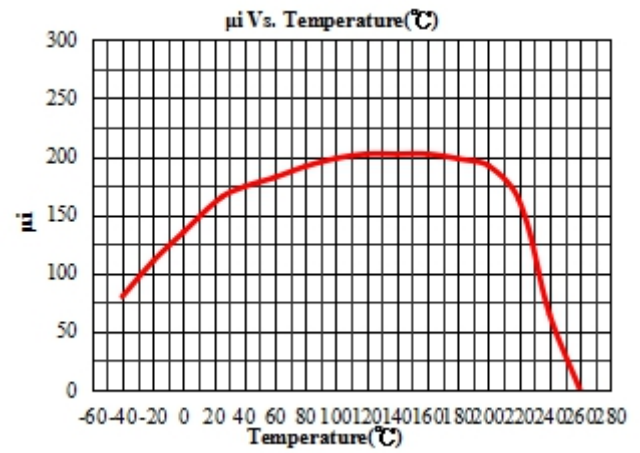
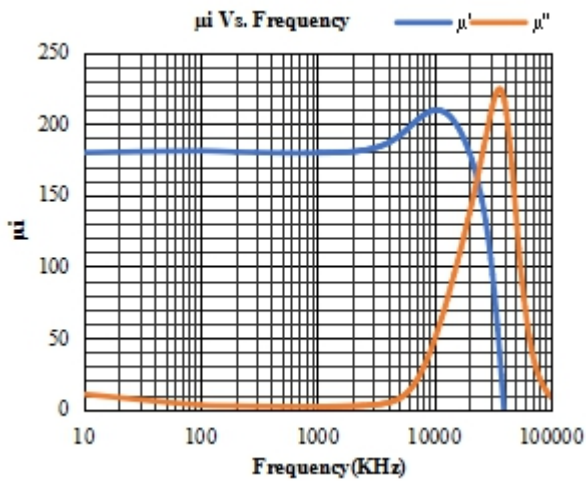
備註：各項數值均為環形磁芯 T31*19*8 測得的典型數值，由於幾何形狀和尺寸的影響，產品規格將與這些數據有所差異。

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.

TEL : 86-762-4329901 EX.605 E-mail : sales6@takferrite.com



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.