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（μi）約 350，飽和磁通密度（Bs）約 380 mT，居禮溫度高於 220 ℃。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 (μi) of about 350, a saturation flux density (Bs) of 380 mT, and a Curie temperature above 220 ℃. 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 u_i Initial Permeability	100KHz & <0.2mT		350±25%	
飽和磁通密度 Bs Saturation Flux Density	3000 A/m 100Hz	25℃	380	mT
		100℃	320	
殘留磁通密度 Br Remanence	3000 A/m 100Hz	25℃	250	mT
		100℃	180	
矯頑力 Hc Coercivity	3000 A/m 100Hz	25℃	18	A/m
		100℃	15	
α μ γ (溫度系數)	20-60℃		25	$x10^{-6}$
相對損失因數 Loss Factor	0.1MHz & <0.2mT		15	$x10^{-6}$
	2.0MHz & <0.2mT		35	
居禮溫度 Tc Curie Temp.	100KHz & <0.2mT		>220	℃
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	Ω-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。
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