MF3 鎂鋅材料 MG-ZN MATERIAL

MF3 為鎂鋅鐵氧體材料，初始導磁率（μi）約 350，飽和磁通密度（Bs）約 330 mT，居禮溫度高於 180 ℃。其具備低溫漂、低損耗與中等導磁率，適合 **RFID 線圈、低頻與高頻射頻濾波器，以及寬頻 EMI 抑制磁環**。

MF3 is a Mg－Zn ferrite material with an initial permeability (μi) of about 350, a saturation flux density (Bs) of 330 mT, and a Curie temperature above 180 ℃. It features low temperature coefficient, low loss, and medium permeability, making it suitable for **RFID coils, low- and high-frequency RF filters, and broadband EMI suppression cores.**

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%	
Applicable frequency (適用頻率)			<1.8	MHz
飽和磁通密度 Bs Saturation Flux Density	3000 A/m 100Hz	25℃	330	mT
		100℃	230	
殘留磁通密度 Br Remanence	3000 A/m 100Hz	25℃	160	mT
		100℃	120	
矯頑力 Hc Coercivity	3000 A/m 100Hz	25℃	55	A/m
		100℃	40	
$\alpha\ \mu\ \gamma$ (溫度系數)	20-60℃		10	$x10^{-6}$
相對損失因數 Loss Factor	0.1MHz & <0.2mT		20	$x10^{-6}$
	1.0MHz & <0.2mT		25	
居禮溫度 Tc Curie Temp.	100KHz & <0.2mT		>180	℃
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	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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