

DL4 高磁通耐熱衝擊材料 HIGH FLUX & THERMAL SHOCK RESISTANT FERRITE

DL4 為鎳鋅鐵氧體材料，初始導磁率 (μ_i) 約 600，飽和磁通密度 (B_s) 350 mT，居里溫度高於 200 °C。具高靈敏度與低損耗特性，並具有優異的耐熱衝擊性能與耐焊能力。適合低頻至中頻的精密信號處理，包括高精度寬頻變壓器、感測線圈與 EMI 濾波器，特別適用於對靈敏度要求高的 SMD 應用。亦可應用於低電流高頻功率電感與阻抗調諧線圈，適合訊號與電源混合模組設計。

DL4 is a NiZn ferrite material with an initial permeability (μ_i) of about 600, a saturation flux density (B_s) of 350 mT, and a Curie temperature above 200 °C. It provides high sensitivity and low loss, combined with excellent thermal shock resistance and soldering heat resistance. Suitable for low-to-mid frequency precision signal processing, including high-accuracy wideband transformers, sensing coils, and EMI filters, especially in SMD applications requiring high sensitivity. It can also be used for low-current high-frequency power inductors and impedance-tuning coils, suitable for mixed signal-power module designs.

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		600 ± 25%	
飽和磁通密度 B_s Saturation Flux Density	3000 A/m 100Hz	25°C	350	mT
		100°C	265	
殘留磁通密度 B_r Remanence	3000 A/m 100Hz	25°C	170	mT
		100°C	110	
矯頑力 H_c Coercivity	3000 A/m 100Hz	25°C	32	A/m
		100°C	20	
$\alpha \mu \gamma$ (溫度系數)	20-60°C		30	$\times 10^{-6}$
相對損失因子 Loss Factor	0.1MHz & <0.2mT		12	$\times 10^{-6}$
	1.5MHz & <0.2mT		80	
居禮溫度 T_c Curie Temp.	100KHz & <0.2mT		>200	°C
密度 D Density	阿基米德法 Archimedes method		5.0	g/cm ³
電阻 ρ Electrical Resistivity	直流電流 DC Current		10^7	$\Omega\cdot m$

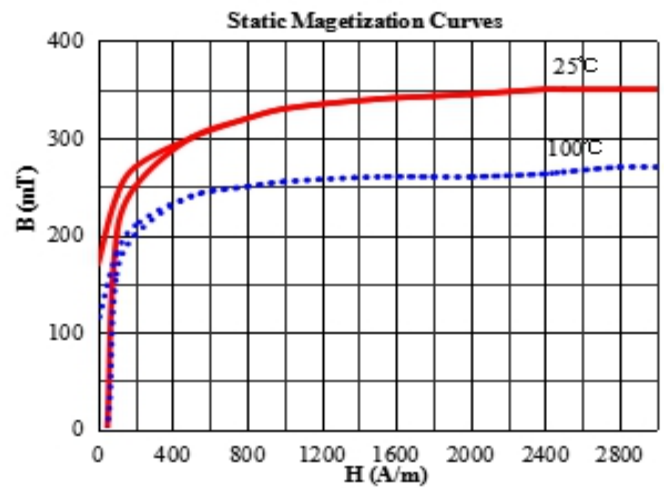
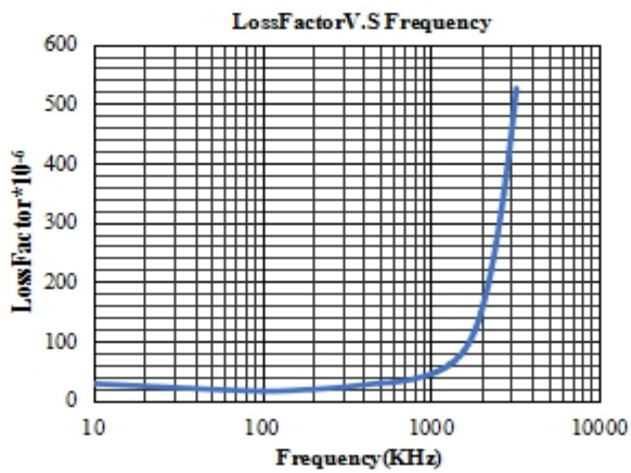
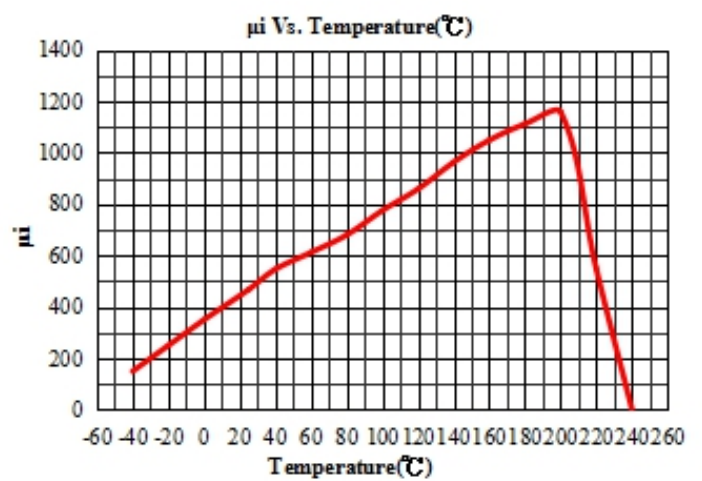
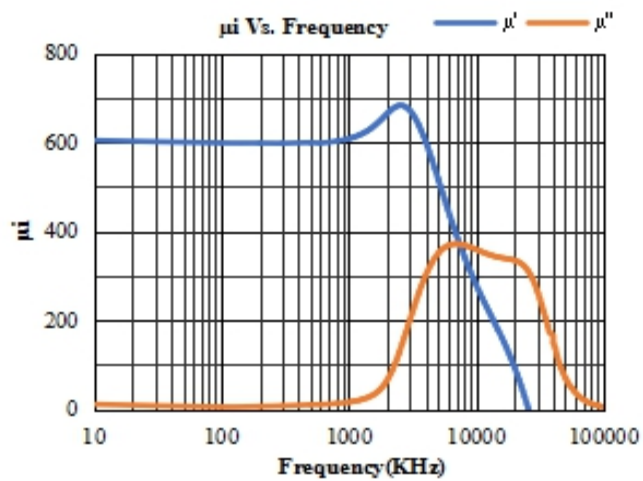
备注：各項數值均為環形磁芯 T31*19*13 測得的典型數值。由于幾何形狀和尺寸的影響，產品規格將與這些數據有所差異。

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.

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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Data is subject to change without prior notice, please be sure to request a specification for further confirmation of detailed features and specifications.