

DL5H 高磁通耐熱衝擊材料 HIGH FLUX & THERMAL SHOCK RESISTANT FERRITE

DL5H 為鎳鋅鐵氧體材料，初始導磁率 (μ_i) 約 400，飽和磁通密度 (B_s) 420 mT，居里溫度高於 240 °C。具高耐溫與高磁通特性，並具有優異的耐熱衝擊與耐焊性能，可承受急冷急熱及高溫回流焊條件。適用於高功率寬頻電感、EMI 濾波器及耐高溫共模扼流圈，尤其適合長時間運行於高溫環境的 SMD 電源模組。作為功率電感材料，特別適合中高頻、高電流及耐高溫的工業與車規級應用。

DL5H is a NiZn ferrite material with an initial permeability (μ_i) of about 400, a saturation flux density (B_s) of 420 mT, and a Curie temperature above 240 °C. It features high temperature resistance and high flux density, along with excellent thermal shock resistance and soldering durability, capable of withstanding rapid thermal cycling and high-temperature reflow soldering conditions. It is suitable for high-power wideband inductors, EMI filters, and high-temperature-resistant common-mode chokes, particularly ideal for SMD power modules operating continuously in high-temperature environments. As a power inductor material, DL5H is especially suited for medium- to high-frequency, high-current, and high-temperature industrial and automotive-grade applications.

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		530±25%	
飽和磁通密度 B_s Saturation Flux Density	3000 A/m 100Hz	25°C	400	mT
		100°C	305	
殘留磁通密度 B_r Remanence	3000 A/m 100Hz	25°C	180	mT
		100°C	100	
矯頑力 H_c Coercivity	3000 A/m 100Hz	25°C	22	A/m
		100°C	16	
$\alpha \mu \gamma$ (溫度系數)	20-60°C		20	$\times 10^{-6}$
相對損失因子 Loss Factor	0.1MHz & <0.2mT		35	$\times 10^{-6}$
	1.0MHz & <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		5.1	g/cm ³
表面電阻 ρ Electrical Resistivity	直流電流 DC Current		10^7	$\Omega\cdot m$

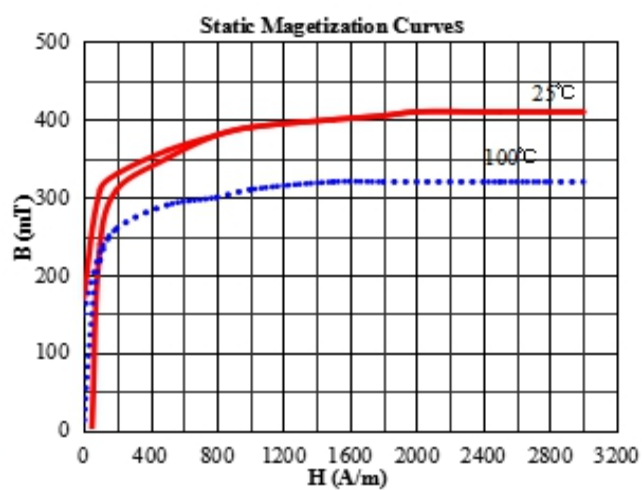
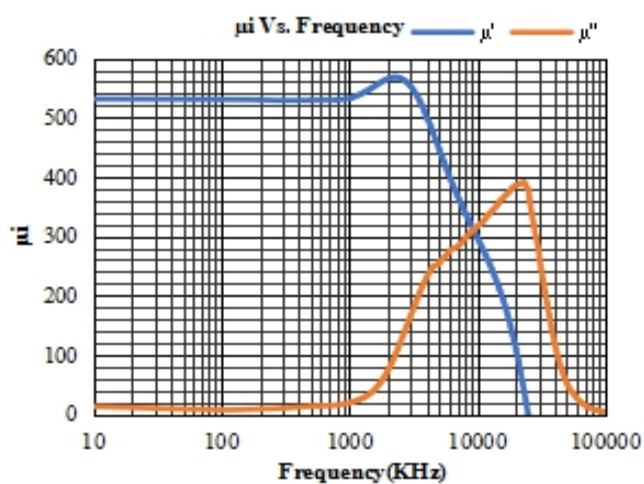
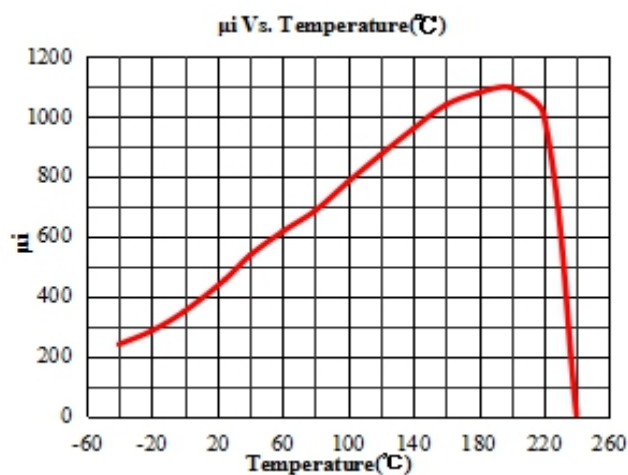
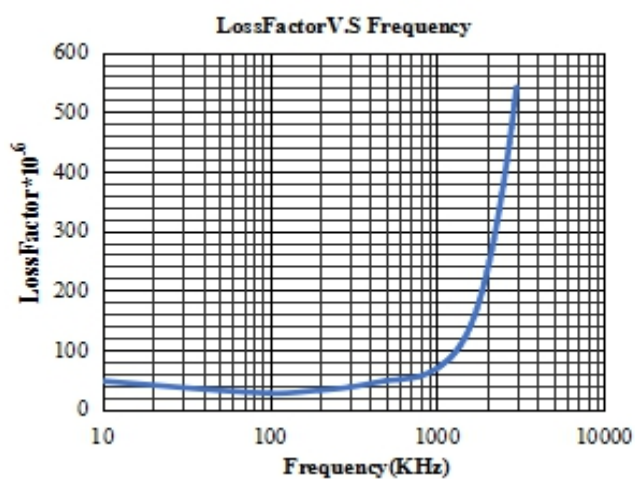
备注：各項數值均為環形磁芯 T31*19*13 測得的典型數值。由于幾何形狀和尺寸的影響，產品規格將與這些數據有所差異。

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.