

DL6 高磁通耐熱衝擊材料 HIGH FLUX & THERMAL SHOCK RESISTANT FERRITE

DL6 為鎳鋅鐵氧體材料，初始導磁率 (μ_i) 約 300，飽和磁通密度 (B_s) 440 mT，居里溫度高於 260 °C。具全系列最高磁通密度與耐溫性能，並具備優異的耐熱衝擊與耐焊能力，可承受極端溫差變化及高溫回流焊條件。適用於極端溫度循環 (-40 °C 至 +200 °C) 下的高功率電感、射頻濾波器與航太、油井勘探等專用磁性元件，特別適合高可靠性 SMD 設計。在功率電感應用中，能支援中高頻段的高電流、高磁通密度設計，適用於極端工況的車規與軍規電源系統。

DL6 is a NiZn ferrite material with an initial permeability (μ_i) of about 300, a saturation flux density (B_s) of 440 mT, and a Curie temperature above 260 °C. It offers the highest flux density and temperature resistance in the series, along with excellent thermal shock resistance and soldering durability, capable of withstanding extreme temperature variations and high-temperature reflow soldering conditions. It is suitable for high-power inductors, RF filters, and specialized magnetic components for aerospace, oil well exploration, and other applications requiring operation under extreme temperature cycles (-40 °C to +200 °C). Particularly ideal for high-reliability SMD designs, DL6 supports medium- to high-frequency high-current, high-flux-density designs in power inductor applications, making it suitable for automotive and military-grade power systems operating under extreme conditions.

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		300	
飽和磁通密度 B_s Saturation Flux Density	3000 A/m 100Hz	25°C	440	mT
		100°C	370	
殘留磁通密度 B_r Remanence	3000 A/m 100Hz	25°C	300	mT
		100°C	205	
矯頑力 H_c Coercivity	3000 A/m 100Hz	25°C	55	A/m
		100°C	45	
$\alpha \mu \gamma$ (溫度系數)	20-60°C		25	$\times 10^{-6}$
相對損失因子 Loss Factor	0.1MHz & <0.2mT		20	$\times 10^{-6}$
	2.0MHz & <0.2mT		50	
居禮溫度 T_c Curie Temp.	100KHz & <0.2mT		>260	°C
密度 D Density	阿基米德法 Archimedes method		5.2	g/cm ³
表面電阻 ρ Electrical Resistivity	直流電流 DC Current		10^7	$\Omega\text{-m}$

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。

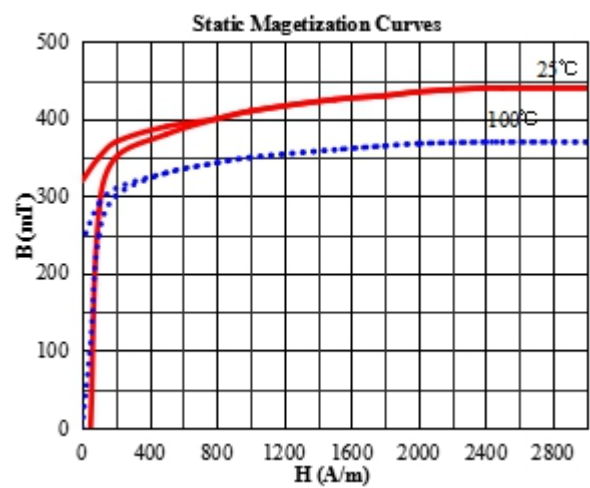
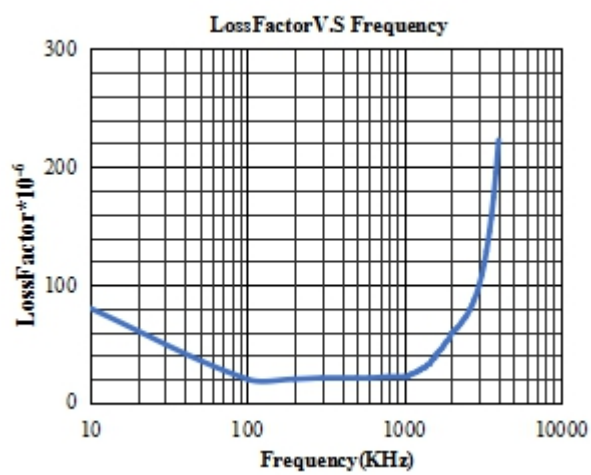
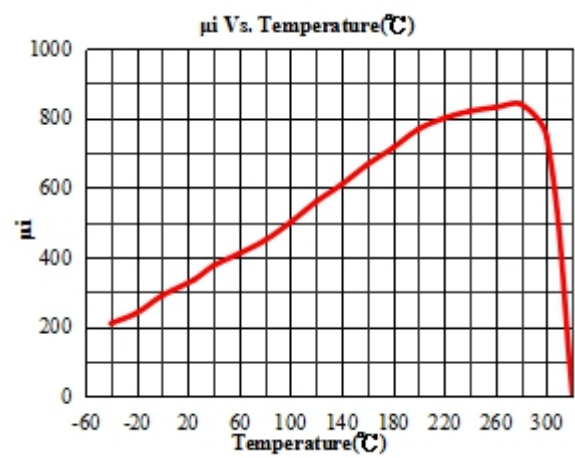
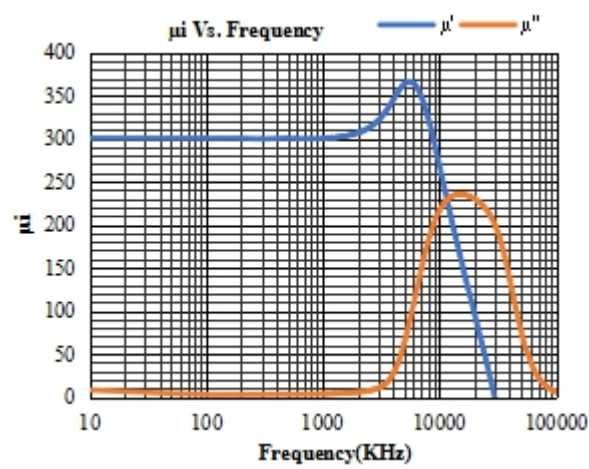
Note: All values are typical values measured for the toroidal magnetic core T31*19*13. Due to the influence of geometric shape and size, the product specifications may differ from these data.

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.

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

DL6 高磁通耐熱衝擊材料 HIGH FLUX & THERMAL SHOCK RESISTANT FERRITE MATERIAL



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.