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

DL3 高磁通耐熱衝擊材料 HIGH FLUX & THERMAL SHOCK RESISTANT FERRITE

DL3 為鎳鋅鐵氧體材料，初始導磁率（μi）約 350，飽和磁通密度（Bs）350 mT，居里溫度高於 200 ℃。具備優異的耐熱衝擊性能，適合用於共模與差模的寬頻電磁干擾抑制、射頻調諧、寬頻及平衡－不平衡變壓器，特別適用於 SMD 類型產品。亦可用於中高頻小功率功率電感及 RF choke，適合中等電流、尺寸受限的電源模組。

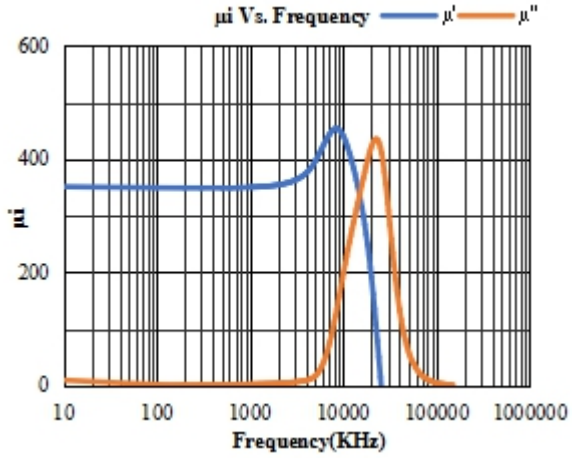
DL3 is a NiZn ferrite material with an initial permeability (μi) of about 350, a saturation flux density (Bs) of 350 mT, and a Curie temperature above 200 ℃. It features excellent thermal shock resistance, making it ideal for common-mode and differential-mode wideband EMI suppression, RF tuning, wideband, and balun transformers, particularly for SMD-type products. It is also suitable for mid-to-high frequency small-power inductors and RF chokes, especially in medium-current, size-constrained power modules.

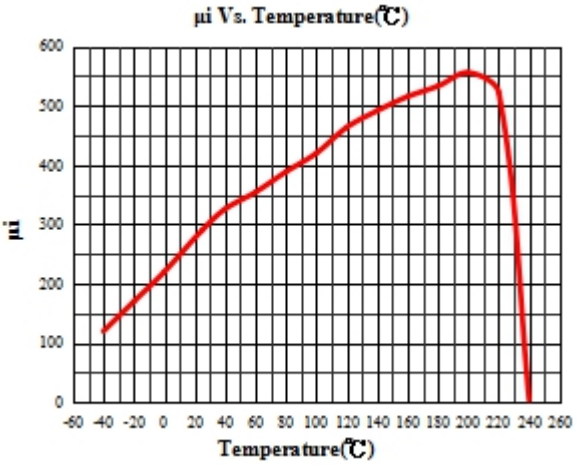
特性 CHARACTERISTICS	測試條件 CONDITION		典型值 TYPICAL VALUE	单位 UNIT
初始磁導率 u_i Initial Permeability	100KHz & <0.2mT		350±25%	
飽和磁通密度 Bs Saturation Flux Density	3000 A/m 100Hz	25℃	350	mT
		100℃	280	
殘留磁通密度 Br Remanence	3000 A/m 100Hz	25℃	205	mT
		100℃	125	
矯頑力 Hc Coercivity	3000 A/m 100Hz	25℃	45	A/m
		100℃	40	
$\alpha\ \mu\ \gamma$ (溫度系數)	20-60℃		25	$x10^{-6}$
相對損失因子 Loss Factor	0.1MHz <0.2mT		15	$x10^{-6}$
	2.0MHz <0.2mT		30	
居禮溫度 Tc Curie Temp.	100KHz & <0.2mT		>200	℃
密度 D Density	阿基米德法 Archimedes method		5.0	g/cm^3
表面電阻 ρ Electrical Resistivity	直流电流 DC Current		10^7	Ω-m

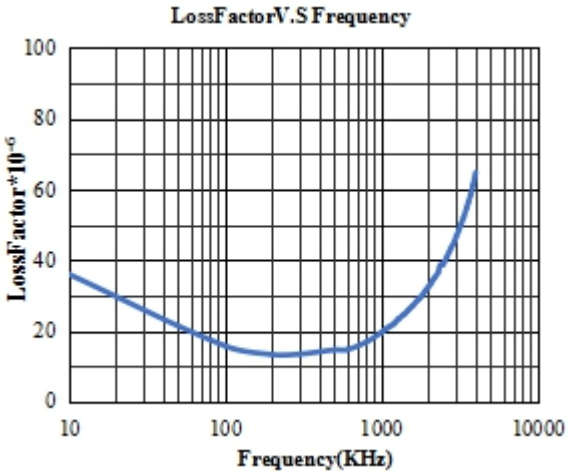
备注：各项数值均為環形磁芯 T31*19*13 測得的典型數值。由于幾何形狀和尺寸的影響，產品規格將與這些數據有所差异。

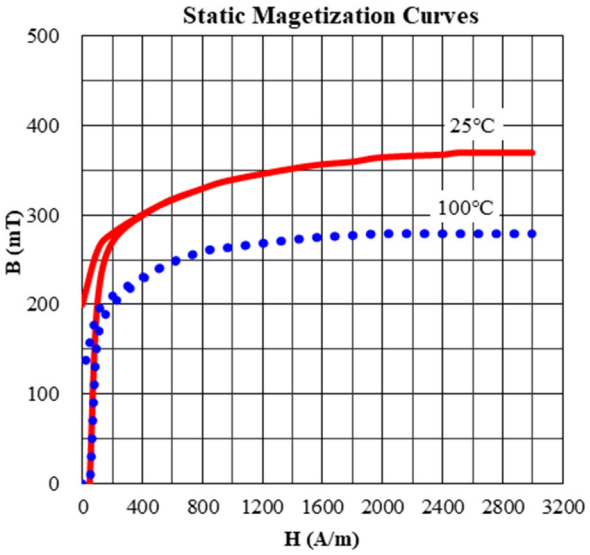
Note：All values are typical values measured for the toroidal magnetic core T31*19*13. Due to the influence of geometric shape and size, the product specifications may differ from these data.

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


μi Vs. Frequency
μ'
μ"
600
400
200
0
μi
10
100
1000
10000
100000
1000000
Frequency(KHz)


μi Vs. Temperature(℃)
600
500
400
300
200
100
0
μi
-60 -40 -20 0 20 40 60 80 100 120 140 160 180 200 220 240 260
Temperature(℃)


LossFactorV.S Frequency
100
80
60
40
20
0
LossFactor*10⁻⁶
10
100
1000
10000
Frequency(KHz)


Static Magetization Curves
500
400
300
200
100
0
B (mT)
25℃
100℃
0
400
800
1200
1600
2000
2400
2800
3200
H (A/m)