

## L6A 高磁導率 EMI 材料 HIGH PEAM. & EMI MATERIALS

專為 Signal line filters, common-mode chokes 設計，初始導磁率 ( $\mu_i$ ) 約 1200，飽和磁通密度 ( $B_s$ ) 達 320 mT，居裡溫度  $>150^\circ\text{C}$ ，適合在對溫度穩定性與頻率響應要求嚴苛的環境下使用。高電阻率特性，使其具備優異抗 EMI 能力，確保長期穩定與高可靠度。

Specifically designed for signal line filters and common-mode chokes, it features an initial permeability ( $\mu_i$ ) of approximately 1200, a saturation flux density ( $B_s$ ) of up to 320 mT, and a Curie temperature above  $150^\circ\text{C}$ . It is suitable for environments with stringent requirements on temperature stability and frequency response. With its high resistivity characteristics, it provides excellent EMI suppression capability, ensuring long-term stability and high reliability.

| 特性<br>CHARACTERISTICS                   | 測試條件<br>CONDITION          |                      | 典型值<br>TYPICAL VALUE | 單位<br>UNIT             |
|-----------------------------------------|----------------------------|----------------------|----------------------|------------------------|
| 初始磁導率 $\mu_i$<br>Initial Permeability   | 100KHz & $<0.2\text{mT}$   |                      | 1200 $\pm$ 25%       |                        |
| 飽和磁通密度 $B_s$<br>Saturation Flux Density | 3000 A/m<br>100Hz          | 25 $^\circ\text{C}$  | 320                  | mT                     |
|                                         |                            | 100 $^\circ\text{C}$ | 205                  |                        |
| 殘留磁通密度 $B_r$<br>Remanence               | 3000 A/m<br>100Hz          | 25 $^\circ\text{C}$  | 210                  | mT                     |
|                                         |                            | 100 $^\circ\text{C}$ | 40                   |                        |
| 矯頑力 $H_c$<br>Coercivity                 | 3000 A/m<br>100Hz          | 25 $^\circ\text{C}$  | 20                   | A/m                    |
|                                         |                            | 100 $^\circ\text{C}$ | 15                   |                        |
| $\alpha \mu \gamma$<br>(溫度系數)           | 20-60 $^\circ\text{C}$     |                      | 15                   | $\times 10^{-6}$       |
| 相對損失因數<br>Loss Factor                   | 0.1MHz & $<0.2\text{mT}$   |                      | 15                   | $\times 10^{-6}$       |
|                                         | 0.5MHz & $<0.2\text{mT}$   |                      | 30                   |                        |
| 居裡溫度 $T_c$<br>Curie Temp.               | 100KHz & $<0.2\text{mT}$   |                      | $>150$               | $^\circ\text{C}$       |
| 密度 $D$<br>Density                       | 阿基米德法<br>Archimedes method |                      | 5.0                  | $\text{g}/\text{cm}^3$ |
| 表面電阻 $\rho$<br>Electrical Resistivity   | 直流電流<br>DC Current         |                      | $10^7$               | $\Omega\text{-m}$      |

備註：各項數值均為環形磁芯 T31\*19\*13 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\*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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