

KB-6150/6150C (ANSI: FR-4)

覆銅箔環氧玻纖布層壓板

特點

- 優異的尺寸穩定性
- 優良的耐熱性能和機械性能
- 耐漏電起痕指數(CTI150V/175V/300V/600V)
- 符合 IPC-4101A 的規範要求

Features

- Excellent dimensional stability
- Excellent heat resistance and mechanical properties
- CTI value 150V/175V/ 300V / 600V
- IPC-4101A specification is applicable .

應用領域

- 電腦、攝像機、儀器儀錶、通訊設備等

Application

- Computer , VCR, Instrumentation, Communication equipment etc.

General Properties 一般特性

| Test Item 測試項目 | Unit 單位 | Test Method (IPC-TM-650) 測試方法 | Test Condition 處理條件 | Spec (IPC-4101A) 規格值 | Typical Value 典型值 |
|--|-------------------|-------------------------------------|-------------------------------|----------------------------|-----------------------|
| Peel Strength (10Z) 銅箔剝離強度 | kgf/cm | 2.4.8 | A | ≥1.43 | 1.75 |
| | | | Float 288°C / 10Sec | ≥1.40 | 1.70 |
| Thermal stress 熱應力 | Sec | 2.4.13.1 | Float 288°C/unetched | ≥60 | 180 |
| Bow / Twist 彎弓度/翹曲度 | % | 2.4.22.1 | A | ≤ 1.0 | 0.07 / 0.09 |
| Flexural Strength 抗彎強度 | N/mm ² | 2.4.4 | Warp | ≥415 | 560 |
| | | | Fill | ≥345 | 410 |
| Flammability 燃燒性 | Rating | UL94 | UL94 | UL94 V-0 | V-0 |
| Glass Transition (Tg) 玻璃化转变温度 | °C | 2.4.25 | E-2/105 (DSC) | ≥130 | 135 |
| Surface Resistance 表面電阻 | MΩ | 2.5.17.1 | C-96/35/90 | ≥1.0×10 ⁴ | 1.0×10 ⁷ |
| Volume Resistance 體積電阻 | MΩ-cm | 2.5.17.1 | C-96/35/90 | ≥1.0×10 ⁶ | 1.0×10 ⁹ |
| Dielectric Constant 介電常數 | — | 2.5.5.2 | Etched/@1 MHZ | ≤5.4 | 4.5 |
| Loss Tangent 介質損耗 | — | 2.5.5.2 | Etched/@1 MHZ | ≤0.035 | 0.022 |
| Arc Resistance 耐電弧性 | Sec | 2.5.1 | D-48/50+D-0.5/23 | ≥60 | 125 |
| Moisture Absorption 吸水率 | % | 2.6.2.1 | D-24/23 | ≤0.35(≥0.51) | 0.10 |
| | | | | ≤0.80(<0.51) | 0.20 |
| Z-Axis Expansion Z-轴热膨胀系数 | ppm/°C | 2.4.24 | E-2/105 TMA | — | 60/290 |
| Comparative Tracking Index 相比漏電起痕指數 | V | IEC 112 | Etched/0.1%NH ₄ Cl | AABUS | 150 /175 300 / 600 |

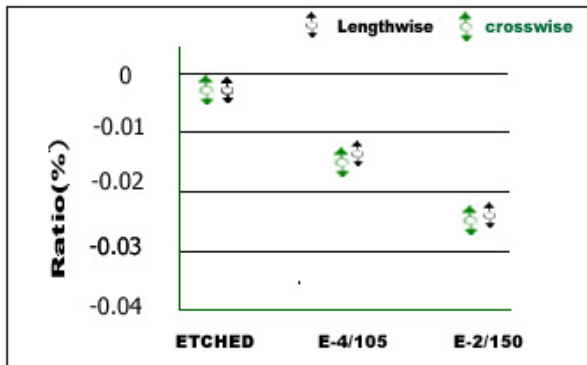
Remarks: Specimen Thickness: 1.6 mm 樣品厚度：1.6 mm A=Maintain original shape, do not make handling 保持原樣, 不作處理
C= Temperature and humidity conditioning 在恒溫恒濕的空氣中處理
E=Temperature conditioning 在恒溫的空氣中處理 D= Temperature conditioning immersion in distilled water. 浸在恒溫的水中處理

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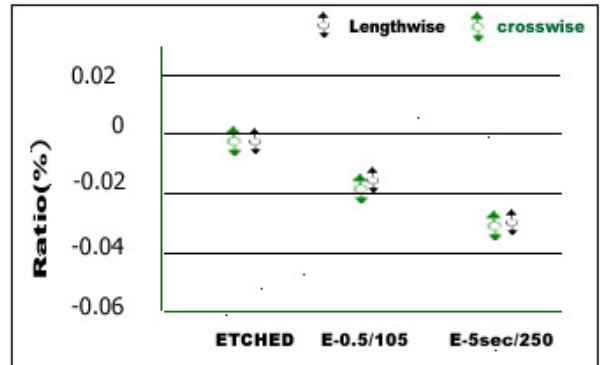
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Speciality Chart 板材特性圖

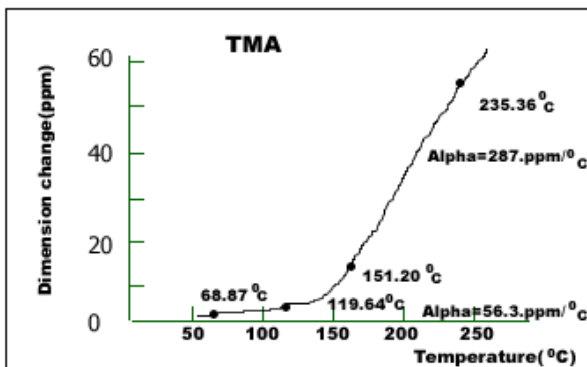
Dimensional stability 尺寸穩定性



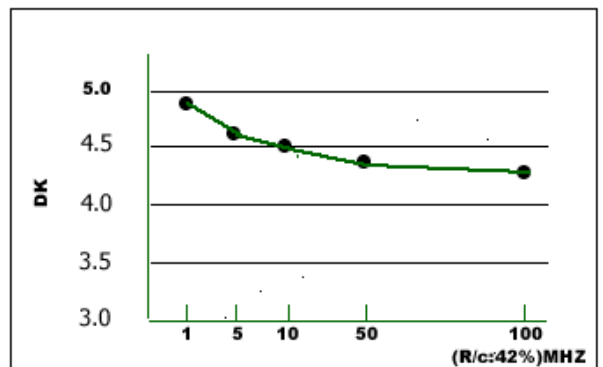
Dimensional stability-PCB process (size:360*310mm)



Thermal expansion of Z-direction (test by TMA)



Dielectric constant 介電常數



Purchasing Information / 採購資訊

| Base colour 基板顏色 | Thickness 厚度 | Copper Cladding 銅箔厚度 | Regular Size (mm) 常規尺寸 | CTI Value CTI 值 |
|---------------------|-------------------|-------------------------------|---|------------------------|
| 白色 white | 0.05mm ~ 3.5mm | 18 μ m, 35 μ m, 70 μ m. | 1020*1220mm (40"*48") 1067*1220mm (42"*48") 915*1220mm (36"*48") 1041*1245mm (41"*49") | 150V/175V 300V/600V |

Note: Other sheet size and thickness could be available upon request.

可根據客戶要求提供其他尺寸和厚度。