

KB-7150 (ANSI: CEM-3)

覆銅箔玻璃氈布複合基層壓板

特點

- 優異機械加工性，可沖孔加工性
- 電性能與 FR-4 相當，加工工藝與 FR-4 相同，鑽嘴磨損率比 FR-4 小
- 多等級的耐漏電痕跡性 (CTI 175V、CTI300V、CTI 600V)
- 符合 IPC-4101A 的規範要求

Features

- Excellent mechanical process ability and punching process applicable
- Electrical properties and PCB processing are similar to FR-4, the wearing of drill bit is much less than that of FR-4
- CTI value 175V/300V/ 600V
- IPC-4101A specification is applicable

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 (IOZ) 銅箔剝離強度 | kgf/cm | 2.4.8 | A | ≥1.43 | 1.80 |
| | | | Float 288°C / 10Sec | ≥1.40 | 1.60 |
| Thermal stress 熱應力 | Sec | 2.4.13.1 | Float 288°C/unetched | ≥20 | 80 |
| Bow / Twist 彎弓度/翹曲度 | % | 2.4.22.1 | A | ≤1.0 | 0.5 / 0.6 |
| Flexural Strength 抗彎強度 | N/mm ² | 2.4.4 | Warp | ≥276 | 355 |
| | | | Fill | ≥186 | 293 |
| Flammability 燃燒性 | Rating | UL94 | UL94 | UL94V-0 | V-0 |
| Surface Resistance 表面電阻 | MΩ | 2.5.17.1 | C-96/35/90 | ≥1.0×10 ⁴ | 1.0×10 ⁸ |
| 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 | 0.020 |
| Arc Resistance 耐電弧性 | Sec | 2.5.1 | D-48/50+D-0.5/23 | ≥60 | 128 |
| Moisture Absorption 吸水率 | % | 2.6.2.1 | D-24/23 | ≤0.5 | 0.20 |
| Comparative Tracking Index 相比漏電起痕指數 | V | IEC 112 | Etched/0.1% NH ₄ Cl | AABUS | 175/300/600 |

Remarks: Specimen Thickness: 1.6mm , 樣品厚度: 1.6mm

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

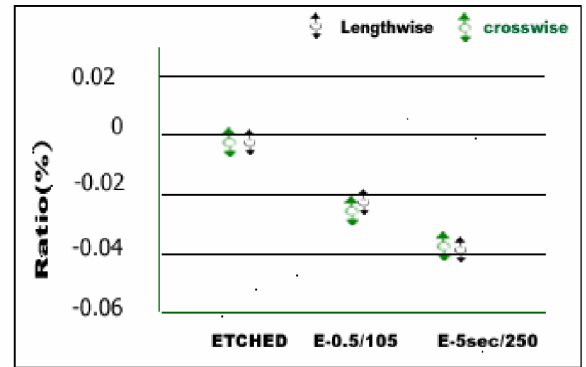
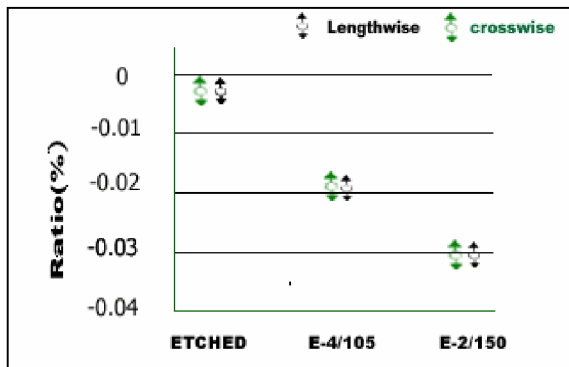
KB-7150 (ANSI: CEM-3)

覆銅箔玻璃氈布複合基層壓板

Speciality Chart 板材特性圖

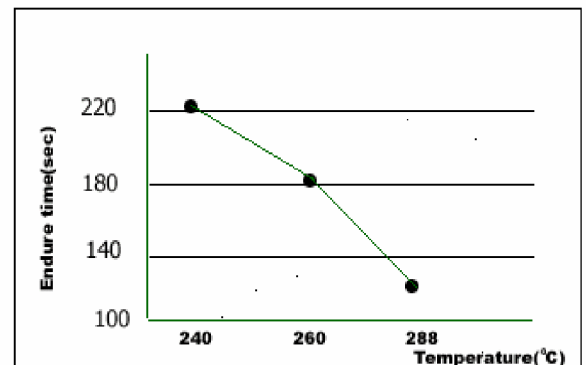
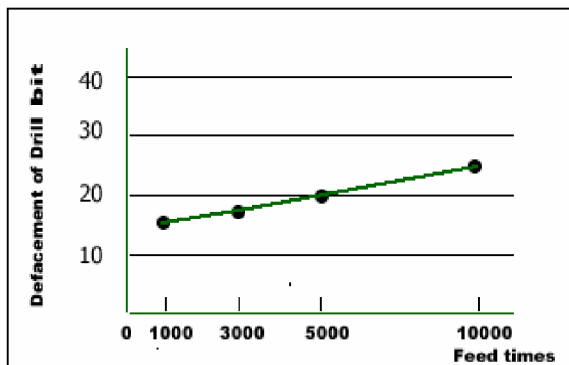
Dimensional stability 尺寸穩定性

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



Drilling processability 鑽孔加工性

Thermal stress 耐熱衝擊性



應用領域

Application

● 光電照明、電源基板、電視機、
冰箱、洗衣機、電子樂器

● Photoelectricity, Power supply, TV, Refrigerator,
Washing machine, Electronic musical instrument.

Purchasing Information / 採購資訊

| KB-7150 Type 類型 | Thickness 厚度 | Copper Cladding 銅箔厚度 | Regular Size (mm) 常規尺寸 | CTI Value CTI 值 |
|--------------------|------------------|-------------------------|--|----------------------|
| CEM-3 (基材乳白色、半透明) | 0.8mm ~ 1.6mm | 18μm 35μm 70μm. | 915*1220mm (36"*48") 1020*1220mm (40"*48") 1067*1220mm (42"*48") | 175V 300V 600V |
| WCEM-3 (基材純白色、不透明) | | | | |
| NCEM-3 (基材自然色、透明) | | | | |
| YCEM-3 (基材黃色、透明) | | | | |
| DCEM-3 (基材黑色、不透明) | | | | |

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。