

KB-6164 Tg140 FR-4

覆銅箔環氧玻纖布層壓板

特點

- Tg 140°C (DSC 測試)
- 相容紫外光阻擋及光學自動檢查功能，可提高 PCB 生產效率與準確性
- 良好的耐熱性
- 符合 IPC-4101A 的規範要求

Features

- Tg 140°C (DSC Testing)
- UV Blocking and AOI (automatic optical inspection) compatible, so as to increase productivity and accuracy
- Excellent heat resistance
- 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 (10Z) 銅箔剝離強度	kgf/cm	2.4.8	A	≥1.43	1.65
			Float 288°C/ 10Sec	≥1.40	1.60
Thermal stress 熱應力	Sec	2.4.13.1	Float288°C/unetched	≥60	180
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	≥140	143
Surface Resistance 表面電阻	MΩ	2.5.17.1	C-96/35/90	≥1.0×10 ⁴	1.0×10 ⁴
Volume Resistance 體積電阻	MΩ-cm	2.5.17.1	C-96/35/90	≥1.0×10 ⁹	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	0.019
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)	0.15
				≤0.80(<0.51)	0.25
Z-Axis Expansion Z-轴热膨胀系数	ppm/°C	2.4.24	E-2/105 TMA	—	60/285
TD 熱分解溫度	°C	ASTM D3850 (5%wt loss)	TGA	—	305

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

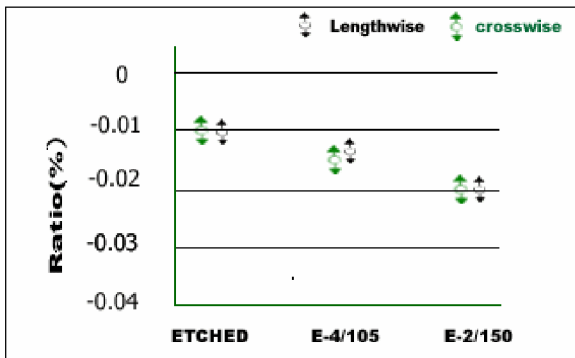
D= Temperature conditioning immersion in distilled water. 浸在恒溫的水中處理

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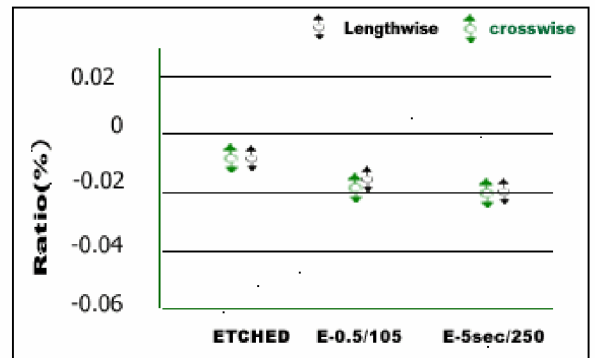
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Speciality Chart 板材特性圖

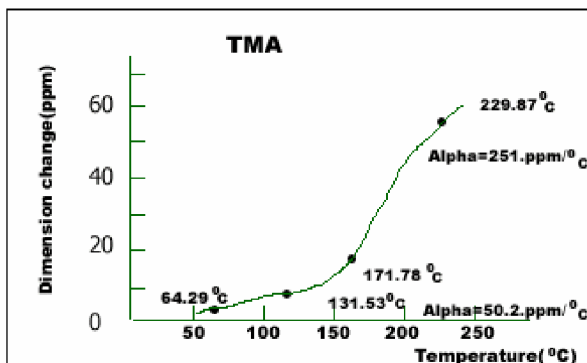
Dimensional stability 尺寸穩定性



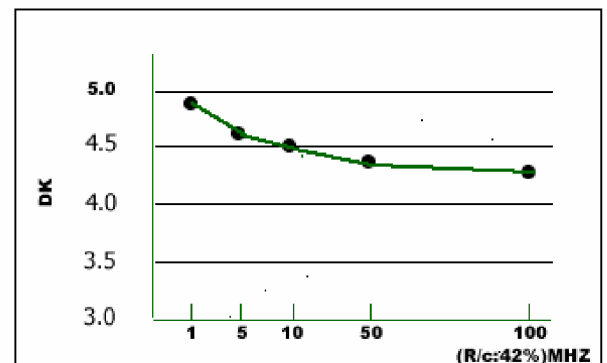
Dimensional stability-PCB process (size:360*310mm)



Thermal expansion of Z-direction (test by TMA)



Dielectric constant 介電常數



應用領域/Applications

- 電腦及週邊設備、通訊設備、儀器儀錶、辦公自動設備等
- Computer, communication equipment instrumentation, OA equipment, etc.

Purchasing Information / 採購資訊

Base colour 基板顏色	Thickness 厚度	Copper Cladding 銅箔厚度	Regular Size 常規尺寸	CTI Value CTI 值
黃色 yellow	0.05mm ~ 3.5mm	18 μm 35 μm 70 μm.	1020*1220mm (40"*48") 1067*1220mm (42"*48") 915*1220mm (36"*48") 1041*1245mm (41"*49")	175V

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。