

KB-6164 (ANSI: FR-4.0)

覆铜箔环氧玻纤布层压板

特点

- Tg 140°C (DSC 测试)
- 兼容紫外光阻挡及光学自动检查功能, 可提高 PCB 生产效率与准确性
- 良好的耐热性及耐 CAF 性能
- 符合 IPC-4101D/27 的规范要求

Features

- Tg 140°C (By DSC)
- UVB and AOI (automatic optical inspection) compatible, so as to increase productivity and accuracy
- Excellent heat resistance and Anti-CAF performance
- IPC-4101D/27 specification is applicable

General Properties 一般特性

Test Item 测试项目	Unit 单位	Test Method (IPC-TM-650) 测试方法	Test Condition 处理条件	Specification (IPC-4101C) 规格值	Typical Value 典型值
Peel Strength (1 oz.) 铜箔剥离强度	N/mm	2.4.8	125°C	≥0.70	1.65
			Float 288°C/ 10 Sec	≥1.05	1.60
Flammability 燃烧性	Rating	UL94	E-24/23	UL94 V-0	V-0
Thermal Stress 热应力	Sec	2.4.13.1	Float 288°C/unetched	≥10	180
Glass Transition (Tg) 玻璃化转变温度	°C	2.4.25	E-2/105 DSC	≥140	143
Surface Resistivity 表面电阻	MΩ	2.5.17.1	C-96/35/90	≥1.0×10 ⁴	1.0×10 ⁷
Volume Resistivity 体积电阻	MΩ-cm	2.5.17.1	C-96/35/90	≥1.0×10 ⁶	1.0×10 ⁹
Flexural Strength 抗弯强度	N/mm ²	2.4.4	Length direction	≥415	582
			Cross direction	≥345	420
Dielectric Breakdown 介质击穿	kV	2.5.6	D-48/50+D0.5/23	≥40	75
Dielectric Strength 介质强度	kV/mm	2.5.6.2	D-48/50+D0.5/23	≥30	45
Dielectric Constant 介电常数	—	2.5.5.2	Etched/@1 MHz	≤5.4	4.58
Loss Tangent 介质损耗	—	2.5.5.2	Etched/@1 MHz	≤0.035	0.019
Arc Resistance 耐电弧性	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(min0.51)	0.15
				≤0.80(max0.51)	0.25
CTE/ Z-Axis Expansion Z-轴热膨胀系数	ppm/°C	2.4.24	E-2/105 TMA	—	54/286
T-260	min	2.4.24.1	TMA	—	15
T-288	min	2.4.24.1	TMA	—	3
TD	°C	2.4.24.6	TGA	—	315

Remarks: Specimen Thickness: 1.6 mm 样品厚度: 1.6 mm

A = Keep the specimen originally without any process 保持原样, 不作处理

C = Temperature and humidity conditioning 在恒温恒湿的空气中处理

D = Immersing in distilled water with temperature control. 浸在恒温的水中处理

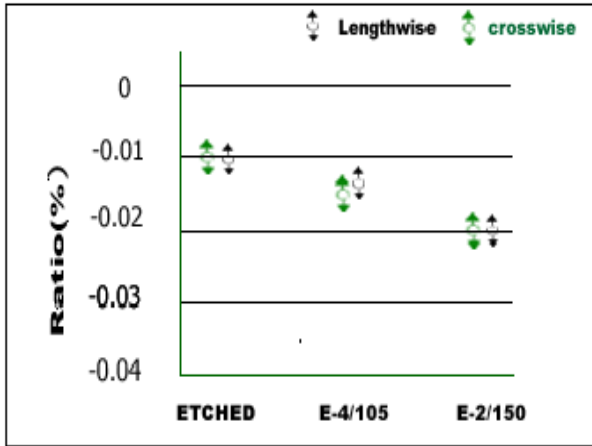
E = Temperature conditioning 在恒温的空气中处理

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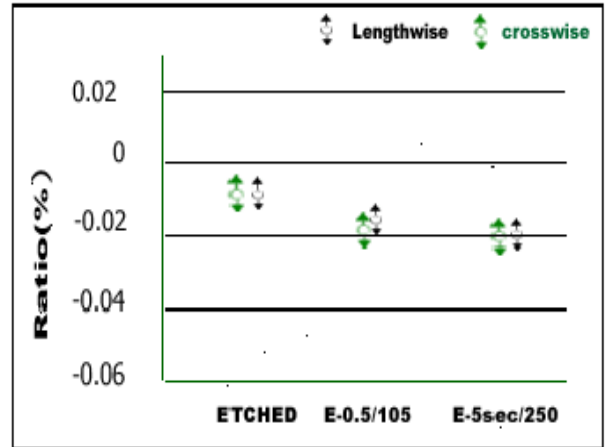
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Speciality Chart 板材特性图

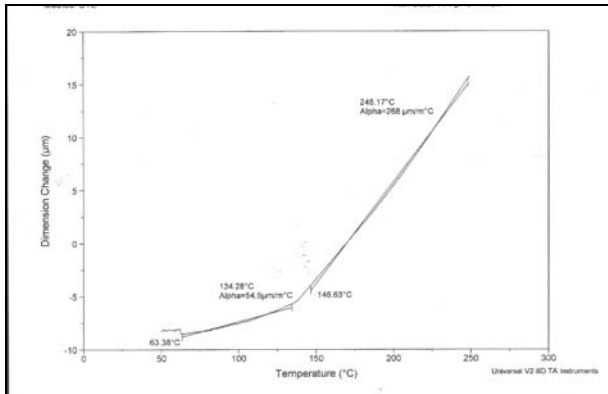
Dimensional stability 尺寸稳定性



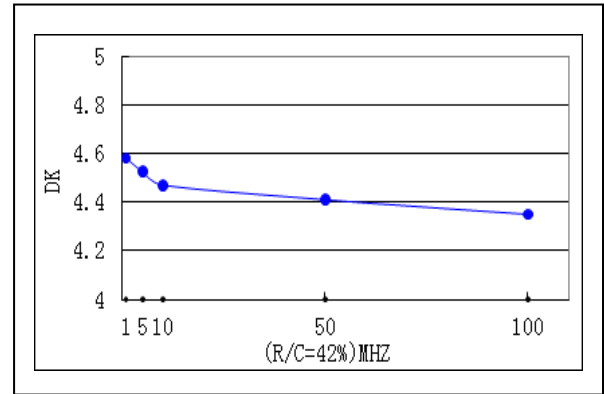
Dimensional stability-PCB process (size:360*310mm)



CTE Z 轴热膨胀系数 (test by TMA)



Dielectric constant 介电常数



Applications 应用领域

- Computer, Communication equipment, instrument, OA equipment, etc.
计算机及外围设备、通讯设备、仪器仪表、办公自动设备等

Purchasing Information 采购信息

Base Color 基板颜色	Thickness 厚度	Copper Cladding 铜箔厚度	Regular Size 常规尺寸	CTI Value
Yellow 黄色	0.05mm ~ 3.5mm	12µm, 18µm 35µm, 70µm 105µm	915*1220mm (36"*48") 1042*1067mm (41"*42") 1020*1220mm (40"*48") 1067*1220mm (42"*48")	175V

Note: Other sheet size and thickness could be available upon request.
可根据客户要求提供其它尺寸和厚度