

# **KB-6164** (ANSI: FR-4)

# 覆铜箔环氧玻纤布层压板

#### 特点

- Tg 140℃ (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
- 符合 IPC-4101C/27 的规范要求

#### General Properties 一般特性

#### Features

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

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.)	N/mm	2.4.8	125℃	≥0.70	1.65
铜箔剥离强度		2.4.8	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 Float288°C/unetched		≥10	180
Glass Transition (Tg) 玻璃化转变温度	$^{\circ}$	2.4.25	2.4.25 E-2/105 DSC		143
Surface Resistivity 表面电阻	ΜΩ	2.5.17.1	C-96/35/90	≥1.0×10 <sup>4</sup>	1.0×10 <sup>7</sup>
Volume Resistivity 体积电阻	МΩ-ст	2.5.17.1	C-96/35/90	≥1.0×10 <sup>6</sup>	1.0×10 <sup>9</sup>
Flexural Strength 抗弯强度	N/mm <sup>2</sup>	2.4.4	Warp	≥415	582
			Fill	≥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	≥29	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	%	2.6.2.1	D-24/23	≤0.35(min0.51)	0.15
吸水率				≤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	$^{\circ}\!\mathbb{C}$	2.4.24.6	TGA		305

Remarks: Typical values for reference only 注: 典型值只作参考 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

◆ ◆ KINGBOARD LAMINATES HOLDINGS LIMITED 建 滔 积 层 板 控 股 有 限 公 司

Website: <a href="http://www.kblaminates.com">http://www.kblaminates.com</a>

Version: 2.1

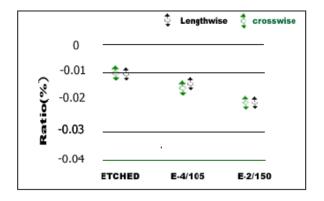
#### **TECHNICAL INFORMATION**

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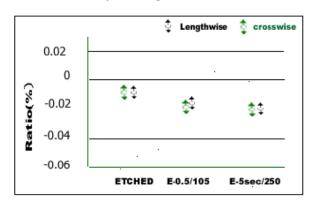
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#### Speciality Chart 板材特性图

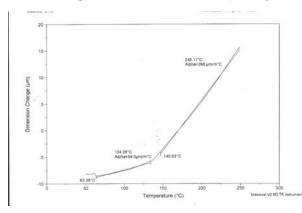
Dimensional stability 尺寸稳定性



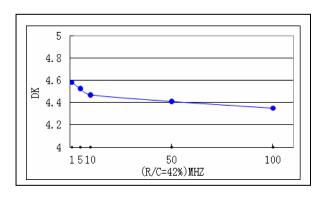
Dimensional stability–PCB process (size:360\*310mm)



Thermal expansion of Z-direction (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	Thickness	Copper Cladding	Regular Size	CTI Value
基板颜色	厚度	铜箔厚度	常规尺寸	
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: 1) 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;

- 2) Speciality chart for reference only. 以上图表仅供参考;
- 3) Version updates without notice. 版本更新恕不另行通知。