

# KB-7150 (ANSI: CEM-3)

## 布、毡组合覆铜基板

### Features 特点

- Excellent mechanical process ability and punching process applicable  
优异机械加工性，可冲孔加工性
- Electrical properties and PCB processing are similar to FR-4 , the wearing of drill bit is much less than FR-4  
电性能与 FR-4 相当，加工工艺与 FR-4 相同，钻嘴磨损率比 FR-4 小
- IPC-4101E/12 specification is applicable  
符合 IPC-4101E/ 12 的规范要求
- KB-7150: CTI≥175V

### Applications 应用领域

- Photoelectricity  
光电照明
- Power supply  
电源基板
- TV  
电视机
- Refrigerator  
冰箱
- Washing machine  
洗衣机
- Electronic musical instrument etc  
电子乐器等

### 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-4101E) 规格值	Typical Value 典型值
<b>Thermal 热性能</b>					
Solder Resistance 耐焊性	Sec	2.4.13.1	Float260°C/unetched	≥10	≥60
Flammability 燃烧性	Rating	UL94	UL94	V-0	V-0
<b>Electrical 电性能</b>					
Surface Resistivity 表面电阻	MΩ	2.5.17.1	C-96/35/90	≥1.0×10 <sup>4</sup>	1.0×10 <sup>6</sup>
Volume Resistivity 体积电阻	MΩ-cm	2.5.17.1	C-96/35/90	≥1.0×10 <sup>6</sup>	1.0×10 <sup>7</sup>
Dielectric Constant 介电常数	—	2.5.5.2	Etched/@1 MHz	≤5.4	4.5
Loss Tangent 介质损耗	—	2.5.5.2	Etched/@1 MHz	≤0.035	0.020
Arc Resistance 耐电弧性	Sec	2.5.1	D-48/50+D-0.5/23	≥60	128
Comparative Tracking Index 相比漏电起痕指数	V	IEC60112	Etched / 0.1% NH <sub>4</sub> CL	≥175	175
<b>Mechanical 机械性能</b>					
Peel Strength (1 oz.) 铜箔剥离强度	N/mm	2.4.8	At 105°C	0.9	1.75
			Float 260°C / 10 Sec	1.05	1.79
Bow / Twist 弯弓度/翘曲度	%	2.4.22.1	A	≤ 1.0	0.5 / 0.8
Flexural Strength 抗弯强度	N/mm <sup>2</sup>	2.4.4	Length direction	≥276	355
			Cross direction	≥186	293
Moisture Absorption 吸水率	%	2.6.2.1	D-24/23	≤0.5	0.20

#### Remarks:

Specimen Thickness: 1.6mm 1/1 样品厚度：1.6mm 1/1

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