

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
Thermal 热性能					
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
Electrical 电性能					
Surface Resistivity 表面电阻	MΩ	2.5.17.1	C-96/35/90	≥1.0×10 ⁴	1.0×10 ⁶
Volume Resistivity 体积电阻	MΩ-cm	2.5.17.1	C-96/35/90	≥1.0×10 ⁶	1.0×10 ⁷
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 ₄ CL	≥175	175
Mechanical 机械性能					
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 ²	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