

KB-3151C (ANSI: FR-1/ JIS: PP7F)

纸芯覆铜基板

Features 特点

- In high temperature warpage and twist both less than 1.0%
在高温下弓曲率、扭曲率小于 1.0%
- Suitable for punching at 40 ~ 70°C
适合之冲孔温度为 40 ~ 70°C
- With different CTI Value, CTI≥175/600V
具有不同 CTI 值, CTI≥175/600V

General Properties 一般特性

Test Item 测试项目	Unit 单位	Test Condition 处理条件	Testing Method 测试方法	Specification 规格值	Typical Value 典型值
Thermal 热性能					
Solder Resistance (float 260°C) 耐焊性	Sec	A	JIS C 6481	≥ 10	20 ~ 30
Heat Resistance 耐热性	—	130°C 30min	JIS C 6481	No Change 无异常	No Change 无异常
Flammability 阻燃性	Rating	A	UL94	V-0	V-0
Electrical 电性能					
Volume Resistivity 体积电阻系数	Ω-cm	C-96/20/65 C-96/20/65+C-96/40/90	JIS C 6481	5×10 ⁹ 5×10 ⁸	1.0×10 ¹² ~10 ¹³ 1.0×10 ¹² ~10 ¹³
Surface Resistivity 表面抗阻	Adhesive Side 粘接剂面	C-96/20/65 C-96/20/65+C-96/40/90	JIS C 6481	1×10 ¹⁰ 1×10 ⁹	1.0×10 ¹¹ ~10 ¹² 1.0×10 ¹⁰ ~10 ¹¹
	Laminate Side 积层板面	C-96/20/65 C-96/20/65+C-96/40/90		1×10 ⁹ 1×10 ⁷	1.0×10 ¹⁰ ~10 ¹¹ 1.0×10 ⁹ ~10 ¹⁰
Insulation Resistance 绝缘抗阻	Ω	C-96/20/65 C-96/20/65+D-2/100	JIS C 6481	1×10 ¹⁰ 1×10 ⁷	1.0×10 ¹¹ ~10 ¹² 1.0×10 ⁸ ~10 ⁹
Dielectric Constant (1 MHz) 介电常数 (1 MHz)	—	C-96/20/65 C-96/20/65+D-24/23	JIS C 6481	≤5.5 ≤6.0	4.0~5.0 4.5~5.5
Dissipation Factor 介质损耗因子	—	C-96/20/65 C-96/20/65-D-24/23	JIS C 6481	≤0.05 ≤0.1	0.025~0.035 0.035~0.045
Mechanical 机械性能					
Peel Strength (Copper Foil 35μm) 铜箔剥离强度 (35μm 铜箔)	Kgf/cm	A float 260°C/5 Sec	JIS C 6481	≥ 1.2	1.5~1.8 1.5~1.8
Flexural Strength 屈曲强度	Lengthwise 纵向	A	JIS C 6481	≥ 8	14-16 13-14
	Crosswise 横向				
Chemical Resistance 耐化学性	—	3% NaOH 40°C 3min	JIS C 6481	No change 无异常	No change 无异常
		Boiled in trichloroethylene for 3 min		No change 无异常	No change 无异常
Moisture Absorption 吸水率	%	E-24/50+D-24/23	JIS C 6481	≤1.3	0.8 ~ 1.0
Punching Temperature 冲孔温度	°C	A	GB/T4722	40 - 70	40 - 70

Remarks :

- Specimen Thickness: 1.6 mm 样品厚度 : 1.6 mm
 Typical values for reference only 典型值仅作参考
 Stand values according to JIS-C-6485 规格值参照 JIS-C-6485
 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