



JIANGMEN LONGXING ELECTRONIC MATERIALS CO., LTD.

ADD: BUILDING 1&2, NO.241, CHAOLIAN AVENUE, PENGJIANG DISTRICT, JIANGMEN, GUANGDONG, CHINA

COPPER CLAD LAMINATE QUALITY TEST REPORT & CERTIFICATE

客户(Customer): ILM ELECTRONICS PRIVATE LIMITED 数量(Quantity): 1000 SHEETS 订单号P/O No.: LX230922BIL

型号(Type): FR-4 Grade A 1.6mm 35/0 规格(Inch): 40.5*48.5 inch 检验日期: 2023年10月11日

Lot No	Ltem	Unit	Test Condition	Property	Actual value	Judgement
序号	检验项目	单位	检测条件	检测指标	测试值	结果
1	外观 Visuals	——	A	IPC-4101 Class A	OK	Pass
2	尺寸公差 Panel Size Tolerance	mm	A	-0 +5	-0 +3	Pass
3	方正度 Squareness	mm	A	对角线 Diagonal	≤3	Pass
4	板材厚度 Thickness	mm	A	1.6±0.13	1.56	Pass
5	抗剥离强度 Peel Strength	Kgf/cm	A	Above 1.43	1.45	Pass
6	耐焊值 Thermal Stress	Sec/秒	288℃	Above 10	25	Pass
7	铜箔检测 Copper Test	Um	IPC-TM-650	35/0	35/0	Pass
8	表面电阻 Surface Resistivity	MΩ	C96/35/90	Above $\geq 1.0 \times 10^4$	1.8×10^6	Pass
9	体积电阻 Volume Resistivity	MΩ	C96/35/90	Above $\geq 1.0 \times 10^6$	1.5×10^6	Pass
10	介电常数 Permittivity	---	C---40/23/50	Less than ≤ 5.4	5.2	Pass
11	介质损耗 Loss Tangent	---	C---40/23/50	Less than ≤ 0.03	0.027	Pass
12	吸水性 Moisture Absorption	%	D 24/23	Less than ≤ 0.5	0.4	Pass
13	自熄性 Flame Resistance	---	E 24/23	V--0 UL94	94-V0	Pass
14	玻璃化转变温度 Glass Tansition	℃	E2/105 DSC	Tg ≥ 130 $\Delta \leq 3$	130/2.8	Pass
检测(QA Technician): 谭婉莹				审核(Check):	郭波	

