



TECHNICAL CAPABILITIES FOR ALU BOARD



HONYA

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Technical Capabilities for Alu Board

Copper layers:	single sided
Board thickness:	0.4-3.0mm
Copper thickness:	1-4oz
The min residual thickness of V-cut:	0.35mm (board thickness 1.6mm)
Min hole:	0.7mm
Standard CNC tool diameter:	2.0mm
Min CNC tool diameter	1.0mm
Profile:	Punch, V-cut and milling
Min track width/space for Hoz:	0.1/0.15mm

铝基覆铜板产品性能表 Aluminum-Based CCL Performance Table

项目 Item	处理条件 Test condition	单位 Unit	指标值 Indicator	AL-01-B 10	AL-01-B 20	AL-01-B 30	AL-01-B 50	AL-01-B 80
绝缘层热导率 Thermal conductivity	ASTM D5470	W/m.K	—	1.0W	2.0W	3.0W	5.0W	8.0W
热阻 Thermal resistivity	ASTM D5470	°C/W	—	0.72	0.55	0.45	0.25	0.18
热应力 Thermal stress	Solder dip 288°C	Minute	≥15	25	25	25	25	25
剥离强度 Peel strength	IPC-TM-650 2.4.8	Lb/in	≥8	9	9	10	10	8
体积电阻 Volume resistivity	IPC-TM-650 2.5.17	MΩ.cm	≥10 ⁶	10 ⁸	10 ⁸	10 ⁸	10 ⁸	10 ⁸
表面电阻 Surface resistivity	IPC-TM-650 2.5.17	MΩ	≥10 ⁴	10 ⁷	10 ⁷	10 ⁷	10 ⁷	10 ⁷
介电常数 Dielectric constant	IPC-TM-650 2.5.5.3	1MHz	—	4.6	4.6	4.9	4.9	4.9
损耗系数 Dissipation Factor	IPC-TM-650 2.5.5.3	1MHz	—	≤0.02	≤0.02	≤0.02	≤0.02	≤0.02
击穿电压 Breakdown voltage	IPC-TM-650 2.5.6.2	KV	50um 75um 100um 150um	6.0 KV (120+/- 10um)	6.0 KV (120+/- 10um)	2.5KV 3.0KV 4.0KV 6.0KV	2.0KV 3.0KV 3.5KV 6.0KV	2.0KV 2.8KV 3.5KV 6.0KV
燃烧性 Flammability	UL94	Class	V-0	V-0	V-0	V-0	V-0	V-0
CTI	IEC60112	V	≥600	600	600	600	600	600
玻璃化温度 TG	DSC	°C	—	110	130	130	150	160
耐电弧 Arc resistance	IPC-TM-650 2.5.1	S	≥60	120	120	120	120	120
热分解温度 TD	TGA(Wt5%loss)	°C	≥360	370	375	380	380	385
吸水率 Moisture Absorption	D-24/23 IPC-TM-650 2.6.2.1	%	≤1.5	0.5	0.5	0.5	0.5	0.5
MOT	UL94	°C	—	130	130	130	130	150

Remarks: Typical value is based on specimen of 1.5mm AL\100um dielectric\1 OZ Cu.
All the typical values listed above are for your reference only and not intended for specification.
Please contact Boyu Technology CO.,LTD for detailed information.