



Boy Technology CO.,LTD

Aluminum-based CCL Performance Table

Item	Test condition	Unit	Indicator	AL-01-B 30	AL-01-B 50	AL-01-B 80
Thermal conductivity	ASTM D5470	W/m.K	—	3.0W	5.0W	8.0W
Thermal resistivity	ASTM D5470	°C/W	—	0.45	0.25	0.18
Thermal stress	Solder dip 288°C	Minute	≥15	25	25	25
Peel strength	IPC-TM-650 2.4.8	Lb/in	≥8	10	10	8
Volume resistivity	IPC-TM-650 2.5.17	MΩ.cm	≥10 ⁶	10 ⁸	10 ⁸	10 ⁸
Surface resistivity	IPC-TM-650 2.5.17	MΩ	≥10 ⁴	10 ⁷	10 ⁷	10 ⁷
Dielectric constant	IPC-TM-650 2.5.5.3	1MHz	—	4.9	4.9	4.9
Dissipation Factor	IPC-TM-650 2.5.5.3	1MHz	—	≤0.02	≤0.02	≤0.02
Breakdown voltage	IPC-TM-650 2.5.6.2	KV	50um	2.5KV	2.0KV	2.0KV
			75um	3.0KV	3.0KV	2.8KV
			100um	4.0KV	3.5KV	3.5KV
			150um	6.0KV	6.0KV	6.0KV
Flammability	UL94	Class	V-0	V-0	V-0	V-0
CTI	IEC60112	v	≥600	600	600	600
TG	DSC	°C	—	130	150	160
Arc resistance	IPC-TM-650 2.5.1	S	≥60	120	120	120
TD	TGA(Wt5%loss)	°C	≥360	380	380	385
Moisture Absorption	D-24/23	%	≤1.5	0.5	0.5	0.5
	IPC-TM-650 2.6.2.1					
MOT	UL	°C	—	130	130	150
CTE(Z-axis)	IPC-TM-650 2.4.24 (Before Tg)	ppm/°C	—	15	15	15
	IPC-TM-650 2.4.24 (After Tg)	ppm/ °C	—	45	45	45
	IPC-TM-650 2.4.24 (50-260°C)	%	—	0.50	0.50	0.50

Remarks: Typical value is based on specimen of 1.5mm AL\120um 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.

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