



AGS-Electronics, Ph: +1-505-550-6501 or +1-505-565-5102, Fx: +1-505-814-5778,  
 Em: sales@ags-electronics.com, Web: http://www.ags-electronics.com

## Process Capability & Tolerance For Aluminum PCB Manufacturing

Seq	Item	Unit	Process Capability
1	Surface treatment	/	OSP, Immersion Gold, Immersion silver, Immersion Tin, HASL, Lead free HASL, Nickel-Gold plating
2	Material	/	Aluminum base PCB
3	Layer count	/	Single-sided; Double sided; 4 layer
4	Max finished size	mm	1100 × 500
5	Min finished size	mm	10 × 10
6	Min line width / spacing	mil	4
7	Bow and Twist	%	≅ 0.5 (Thickness:1.6mm, board size: 300mm × 300mm)
8	Finished board thickness	mm	0.3 - 5.0
9	Copper thickness	um	35 - 240
10	Min spacing from line to pad / pad to pad	mil	8
11	Min drill bit size	mm	0.4
12	Min through hole pad diameter	mm	0.45
13	Outline tolerance	mm	CNC routing: ±0.1mm ; Punching: ±0.15mm
14	V-CUT registration tolerance	mil	±4
15	Hole location tolerance	mil	±2
16	Min solder mask opening (clearance)	mil	2
17	Min solder mask thickness	um	10
18	Solder mask	/	Photographic Solder Mask; Hot-Solder Mask; UV Solder Mask
19	Min component mark line width	mil	4
20	Min component mark line height	mil	27
21	Component mark & solder mask color	/	White, yellow, black, green, aureate
22	Data file format	/	Gerber 、 CAD 、 Protel 、 PADS
23	Electrical performance test	/	Impedance; a short-circuit test; a test for governance; flying probes test
24	Other testing requirements	/	Tin-percolation test; tensile test; impedance test



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**Features:**

- Excellent thermal conductivity
- Excellent dimensional stability
- Excellent machinability
- Excellent electromagnetic shielding.
- High cost performance

**Applications:**

- LED lighting.
- Thick film hybrid integrated circuits.
- Power supply
- Solid relay