

PCB MANUFACTURING CAPABILITIES

A. GENERAL

Product Range :	Single Sided	Double Sided	Multi Layer - 4 layers	Multi Layer - 6 layers
Material Type	FR4 0.4mm* FR4 0.6mm* FR4 0.8mm FR4 1.0mm* FR1 1.6mm* FR4 1.6mm FR4 2.0mm* FR4 2.4mm* FR4 3.2mm*	FR4 0.4mm* FR4 0.6mm* FR4 0.8mm FR4 1.0mm* FR4 1.2mm* FR4 1.6mm FR4 2.0mm* FR4 2.4mm* FR4 3.2mm*	FR4 0.8mm* FR4 1.0mm* FR4 1.2mm FR4 1.6mm FR4 2.0mm FR4 2.4mm FR4 3.2mm*	FR4 1.0mm* FR4 1.2mm FR4 1.6mm FR4 2.0mm FR4 2.4mm FR4 3.2mm*
Finished Conductor Thickness (Table 3-8; IPC 6012B)	Starting foil weight		1/2 oz	1 oz
	Plus minimum plating for Class 2 (20um)		35.40	50.90
Maximum PCB Size :	430mm X 580mm	430mm X 580mm	400mm X 550mm	
Minimum Finish Hole Size :	0.30mm	0.20mm		
Hole Wall to Wall gap	0.30 (PTH) 0.20mm (NPTH)			
Minimum Line Width	0.125mm (5 mil) prototype / 0.15mm (6 mil) production			
Minimum Air Gap	0.125mm (5 mil) prototype / 0.15mm (6 mil) production			
Minimum Annular Ring	Via Hole 0.20mm / Comp Hole 0.30mm			
Minimum Distance From Pad / Trace / Ground To BD Edge : <i>For Routing Method</i> <i>For V - Cut Method</i>	0.30mm 0.50mm*			
Minimum Air Gap : (Inner Layer)	0.15mm (6 mil) prototype / 0.20mm (8 mil) production			
Minimum Annular Ring : (Inner Layer)	0.30mm			
Minimum Distance From Pad/Trace/Ground To BD Edge : for Routing method.	0.30mm			
for V-cutting Method.	0.50mm			
Minimum board thickness for V-cut	0.40mm			
Maximum board thickness for V-cut	3.20mm			
Plated Through Hole Thickness	min 20µm (unless specified by customer)			

B. SOLDER MASK

Minimum clearance (S/M Opening) for LPISM	0.1mm
Thickness (Dry)	Not applied if not specified (as per IPC - 6012B Table 1.2)

C. LEGEND / SILK SCREEN

Minimum Line Width :	0.15mm (6mil) , 0.20mm (8mil)
Legend to Pad	0.2mm

D. TYPE OF SURFACE FINISHING & THICKNESS

Thickness for:	
Hot Air Leveling (63/37 Tin:Lead Solder)	Coverage and Solderable (as per IPC - 6012B Table 3.2)
Panel Gold Plating (Flash Gold) :	Nickel 1.3µm / Gold min 0.01um

E. CNC DRILLING / ROUTING

Drill hole size	± 0.10mm
Drill hole position	± 0.10mm
Minimum Slot Width :	
a) PTH Slot Width	0.65mm ± 0.1
b) NPTH Slot Width	0.8mm ± 0.1
Dimension accuracy	± 0.125mm

F. V-CUT

Cutting angle :	30°
Maximum Board Width :	600mm
Depth Tolerance	± 0.1mm
Beveling Material Thickness	0.80 mm, 1.00 mm & 1.60 mm
Bevel angle	60°
Bevel gap between finger to edges	Recommended 1.50 mm (Refer to Workmanship Standard, PROD-003)

G. INNER LAYER (4 Layers)

Minimum Annular Ring (Hole Edge To Ground Clearance)	0.30mm
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* Need further evaluation and discussion