

Category	Capability	Mass batch	Small Batch	Sample Order
Drilling	Min laser (mm)	3mil	3mil	3mil
	Max laser (mm)	8mil	8mil	8mil
	Min CNC (mm)	0.2	0.15	0.15
	Max CNC drill bit (mm)	6.5	6.5	6.5
	Min Half Hole(mm)	0.5	0.4	0.4
	PTH Hole Normall (mm)	±0.1	±0.075	±0.075
	PTH Hole Pressing Hole(mm)	±0.05	±0.05	±0.05
	Hole Angle (conical)	Width of upper diameters≤6.5mm: 800、900、1000、1100; Width of upper diameters≥6.5mm: 900;		
	Precision of Depth-control Drilling (mm)	±0.10	±0.075	±0.05
	Number of blind CNC holes of one side	≤2	≤3	≤4
	Minimum via hole spacing (different network, military, medical, automobile)mm	0.5	0.45	0.4
	Minimum via hole spacing (different network, general industrial control and consumer electronic) mm	0.4	0.35	0.3
	The minimum hole wall spacing of the over hole (the same network mm)	0.2	0.2	0.15
	Minimum hole wall spacing (mm) for device holes	0.8	0.7	0.7
	The minimum distance from via hole to the inner copper or line	0.2	0.18	≤10L: 0.15 >10L: 0.18
	The min distance from Device hole to inner copper or line	0.3	0.27	0.25
	Diameter range of resin plug hole (mm)	0.1-0.45	0.1-0.45	0.1-0.7
	Min diameter of back drilling (mm)	0.5	0.5	0.2
	Back drill depth accuracy tolerance (mm)	±0.05	±0.03	
	Max Ratio of hole diameter to board thickness	10:1	10:1	20:1
Tapered hole, stepped hole angle and diameter	Special drills: 82°, 90°, 100°, 135° (diameter range of tapered hole drills is 0.3-10mm)	Special drills: 82°, 90°, 100°, 135° (diameter range of tapered hole drills is 0.3-10mm)	Special drills: 82°, 90°, 100°, 135° (diameter range of tapered hole drills is 0.3-10mm)	
	Normal drills: Angle 130° (drill φ≤3.175mm), 165° (drill φ 3.175--6.3mm)	Normal drills: Angle 130° (drill φ≤3.175mm), 165° (drill φ 3.175--6.3mm)	Normal drills: Angle 130° (drill φ≤3.175mm), 165° (drill φ 3.175--6.3mm)	
Welding Ring(mil)	Via hole	4 (HDI 3mil)	3.5 (HDI 3mil)	3
	Component hole	8	6	6

Final Board Thickness	>1.0 mm	±10%	±8%	±8%
	≤1.0 mm	±0.1mm	±0.1mm	±0.1mm
CNC	contour tolerance (mm)	±0.15	±0.10	±0.10
	V-CUT Tolerance of residual thickness(mm)	±0.15	±0.10	±0.10
	(mm)			
	Routing slot (mm)	±0.15	±0.10	±0.10
	Precision of controlled deep milling (mm)	±0.15	±0.10	±0.10