



Manufacturer of Quality Printed Circuit Boards since 1967

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Manufacturing Capabilities

DESCRIPTION	PROD	PROTO	DESCRIPTION	PROD	PROTO
Minimum Laminate Thickness (DT)	.0035"	.0030"	Drilling		
Maximum Laminate Thickness (DT)	.250"	.250"	Minimum Hole Size	0.010"	0.008"
Maximum Layer Count	12	14	Drilled hole location tolerance	+/- 0.003"	+/- 0.003"
1 ounce copper			Maximum Aspect Ratio (DT vs hole dia)	6:1	8:1
Minimum Conductor Width	.006"	.005"	Soldermask / Silkscreen		
Minimum Spacing	.006"	.005"	Minimum Soldermask Annular Ring	0.003"	0.003"
Minimum Annular Ring on plated holes	.006"	.005"	Minimum LPI Feature Size	0.004"	0.004"
Half ounce copper			Minimum Line Width (Silkscreen)	0.006"	0.005"
Minimum Conductor Width	.005"	.003"	Minimum Silkscreen Character Height	0.050"	0.050"
Minimum Spacing	.005"	.004"	Standard Plating Thicknesses		
Minimum Annular Ring on plated holes	.005"	.005"	Copper in Plated Through Hole	0.001" - 0.0015	
Etching			Solder	300-500ui	
Line Width Tolerance	+/- .001"	+/- .0005"	Nickel	150-200ui	
Front to Back Registration Tolerance	+/- .003"	+/- .002"	Gold	30-50ui	
Maximum Copper Weight (with Mask)	3 ounce	3 ounce	Electroless Tin	15-30ui	
Maximum Copper Weight (without Mask)	5 ounce	7 ounce	Immersion Silver	10-15ui	
Etch Factor (per ounce of base copper)	0.0006"	0.0005"	ENIG (Electroless Nickel Immersion Gold)	30ui/7ui	
Minimum SMT Pitch	0.020"	0.018"	Electrical Testing		
Minimum Annular Ring Innerlayers (signal)	0.008"	0.008"	Seica Flying Probe S20 BBT		
Minimum Clearance Ring Innerlayers (pwr/grd)	0.020"	0.015"	4 independent probes - double-sided		
Fabrication			Continuity test - 1ohm - 10kohm		
Minimum Edge Clearance (Routing)	0.015"	0.010"	Isolation test - 10kohm - 1Gohm		
Minimum Edge Clearance (Scoring)	0.030"	0.025"	Voltage measurement - 1V-250V		
On Routed Panels, we typically add:	0.500" waste area to all edges		Capacitance measurement - 0.1pF-100mF		
Dimensional Accuracy (Routing)	0.005"	0.003"	Minimum Testable Pad Size - 0.002"		
Dimensional Accuracy (Scoring)	0.005"	0.005"	Minimum Pitch - 0.00393"		
Minimum Size for Routed Slot	0.020"	0.020"			