

OUTER LAYERS

Copper Weight Pre-Plate oz/square-foot	Limited Review	Online NRE	Custom & RF
< 1.0oz Cu	-	-	Yes ¹
1.0oz Cu	Yes	Yes	Yes
2.0oz Cu	Yes	Yes	Yes
3.0oz Cu	Yes	Yes	Yes
> 3.0oz Cu	-	-	Yes ¹
Minimum Trace / Space			
< 1.0oz Cu	-	-	RFQ ³
1.0oz Cu	0.004" / 0.004"	0.004" / 0.004"	0.003" / 0.003"
2.0oz Cu	0.005" / 0.005"	0.005" / 0.005"	0.004" / 0.004"
3.0oz Cu	0.007" / 0.007"	0.007" / 0.007"	0.006" / 0.006"
> 3.0oz Cu	-	-	RFQ ³
Minimum Pads		x inches larger than finished hole size or slot dimension	
Through Hole	0.016"	0.016"	<0.016"
Vias	0.010"	0.010"	<0.010"
Layer Count		available for 1oz finish copper	
1-14	Yes	Yes	Yes
15-20	-	Yes ⁴	Yes
>20	-	-	Yes

¹ Material availability may impact lead time

³ 1-800-228-8198 / support@sunstone.com

⁴ Not Available in 3oz Finish

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Board Thickness	Limited Review	Online NRE	Custom & RF
< 0.01	- ⁵	- ⁵	- ⁵
0.01	- ⁵	- ⁵	Yes
0.02	Yes	Yes	Yes
0.031	Yes	Yes	Yes
0.039	Yes	Yes	Yes
0.047	Yes	Yes	Yes
0.062	Yes	Yes	Yes
0.078	Yes	Yes	Yes
0.093	Yes	Yes	Yes
0.125	Yes	Yes	Yes
Other ⁵	-	Yes	Yes
Other			
Aspect Ratio (thickness divided by smallest drill size)	≤6.5:1 ValueProto ≤8:1 PCBexpress	≤10:1	>10:1
Layer-to-Layer Registration (Variation)	±0.005" /layer	-	-
Trace Width Variation (Non-impedance)	±20%	-	±0.001" ⁶ ±0.0005" ⁷
Minimum Backset (distance from copper-feature to route/cut-line)	0.020"	0.010"	0.010"

⁵ Not available for multi-layer

⁶ Plated Features

⁷ Non-Plated Layers