














Job Name: 152496Customer Required Finished Thickness: 112.00 (+11.20 / -11.20) mils










Customer: university of marylandMeasured: Over mask on plated copper

Part Name: PathfinderEstimated Thickness after Lamination: 105.34 mils

Revision: A

Imp	Lyr	Type	Image	Foil	Plt (Mil)	Family	Generic Name	Thk (Mil)	Resin %	Er	Vendor	Construction
	sm1	Signal		0.25oz	1.55	Foil	0.25 oz - Foil	0.5				
	l1s											
1xΩ	l2g l3s	Power / Ground Mixed		0.5oz 0.5oz	0	NPG-170	0.004 HHxHH	4	68	4.28	Nanya	1x2116
1xΩ	l4g l5s	Power / Ground Mixed		0.5oz 0.5oz	0	NPG-170	0.004 HHxHH	4	62	3.16	Nanya	1x2116
1xΩ	l6g l7s	Power / Ground Mixed		0.5oz 0.5oz	0	NPG-170	0.004 HHxHH	4	68	3.75	Nanya	1x2116
1xΩ	l8g l9s	Power / Ground Signal		0.5oz 0.5oz	0	NPG-170	0.004 HHxHH	4	62	3.16	Nanya	1x2116
1xΩ	l10g l11s	Power / Ground Mixed		0.5oz 0.5oz	0	NPG-170	0.004 HHxHH	4	68	3.75	Nanya	1x2116
1xΩ	l12g l13g	Power / Ground Power / Ground		1oz 1oz	0	NPG-170	0.002 H1xH1	2	68	3.80	Nanya	1x106
1xΩ	l14s l15g	Signal Power / Ground		0.5oz 0.5oz	0	NPG-170	0.004 HHxHH	4	68	3.75	Nanya	1x2116
1xΩ	l16s l17g	Mixed Power / Ground		0.5oz 0.5oz	0	NPG-170	0.004 HHxHH	4	62	3.16	Nanya	1x2116
1xΩ	l18s l19g	Mixed Power / Ground		0.5oz 0.5oz	0	NPG-170	0.004 HHxHH	4	68	3.75	Nanya	1x2116
1xΩ	l20s l21g	Mixed Power / Ground		0.5oz 0.5oz	0	NPG-170	0.004 HHxHH	4	62	3.16	Nanya	1x2116
1xΩ	l22s l23g	Mixed Power / Ground		0.5oz 0.5oz	0	NPG-170	0.004 HHxHH	4	68	3.75	Nanya	1x2116
	l24s sm24	Mixed		0.25oz	1.55	Foil	0.25 oz - Foil	0.5				

Impedance Table

Index	Layer	Required Impedance [ohms]	Tol [ohms] +/-	Type	Ref 1	Lower Ref	Orig LW [mil]	Orig Spacing [mil]	Orig CP Spacing [mil]	Finished LW [mil]	Finished Spacing [mil]	Fin. CP Spacing [mil]	Impedance Simulation [ohms]	Impedance before Mask [ohms]	IMG
a	3	100	10%	Diff Stripline	4	2	3.50	4.37		3.00	4.87		99.0		
b	5	100	10%	Diff Stripline	6	4	3.50	4.37		3.00	4.87		99.1		
c	7	100	10%	Diff Stripline	8	6	3.50	4.37		3.00	4.87		99.0		
d	9	100	10%	Diff Stripline	10	8	3.50	4.37		3.00	4.87		99.0		
e	11	100	10%	Diff Stripline	12	10	3.50	4.37		3.00	4.87		97.7		
f	14	100	10%	Diff Stripline	13	15	3.50	4.37		3.00	4.87		97.7		
g	16	100	10%	Diff Stripline	15	17	3.50	4.37		3.00	4.87		99.0		
h	18	100	10%	Diff Stripline	17	19	3.50	4.37		3.00	4.87		99.0		
i	20	100	10%	Diff Stripline	19	21	3.50	4.37		3.00	4.87		99.1		
j	22	100	10%	Diff Stripline	21	23	3.50	4.37		3.00	4.87		99.0		