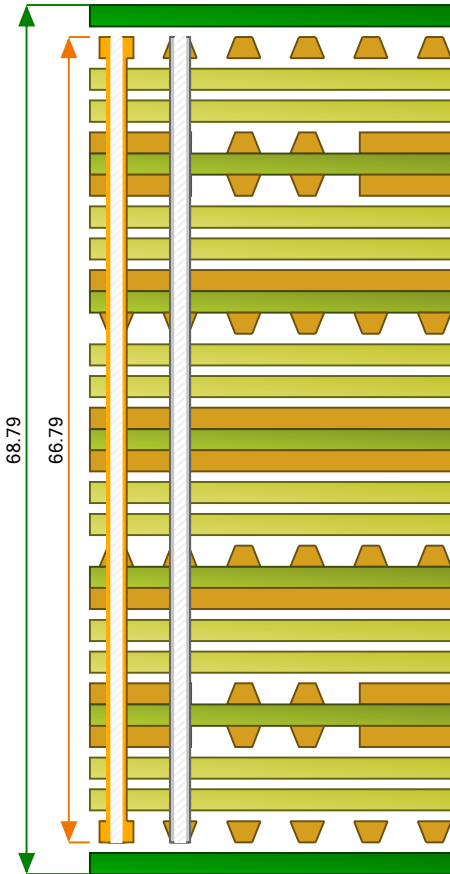




Layer	Stack up	Description	Processed Thickness	Isolation Distance (Summed)	Copper Coverage	εr	Loss Tangent	Impedance ID
1		Taiyo PSR 4000 HFX DI-GREEN	1.000			3.500	0.0270	
		Copper Foil 12 microns	1.850		100.000			1, 2, 3, 4, 5, 6, 7, 8, 9, 10
		Iteq IT180A Prepreg 106 RC71-NEW	1.779	3.558		3.790	0.0150	
Iteq IT180A Prepreg 106 RC71-NEW		1.779	-		3.790	0.0150		
		1.260		60.000				
2		Iteq IT180A 4 mil core 1/1	4.000	4.000		4.400	0.0150	
			1.260		60.000			11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21
		Iteq IT180A Prepreg 1080 RC65-NEW	2.526	5.844		3.860	0.0160	
3		Iteq IT180A Prepreg 2113 RC58-NEW	3.318	-		4.130	0.0160	
			1.260		60.000			
		Iteq IT180A 4 mil core 1/1	4.000	4.000		4.400	0.0150	
4			1.260		60.000			22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32
		Iteq IT180A Prepreg 1080 RC65-NEW	2.526	5.844		3.860	0.0160	
		Iteq IT180A Prepreg 2113 RC58-NEW	3.318	-		4.130	0.0160	
5			1.260		60.000			
		Iteq IT180A 4 mil core 1/1	4.000	4.000		4.400	0.0150	
			1.260		60.000			
6		Iteq IT180A Prepreg 1080 RC65-NEW	2.526	5.844		3.860	0.0160	
		Iteq IT180A Prepreg 2113 RC58-NEW	3.318	-		4.130	0.0160	
			1.260		60.000			
7		Iteq IT180A 4 mil core 1/1	4.000	4.000		4.400	0.0150	
			1.260		60.000			
		Iteq IT180A Prepreg 2113 RC58-NEW	3.318	5.844		4.130	0.0160	
8		Iteq IT180A Prepreg 1080 RC65-NEW	2.526	-		3.860	0.0160	
			1.260		60.000			33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43
		Iteq IT180A 4 mil core 1/1	4.000	4.000		4.400	0.0150	
9			1.260		60.000			
		Iteq IT180A Prepreg 2113 RC58-NEW	3.318	5.844		4.130	0.0160	
		Iteq IT180A Prepreg 1080 RC65-NEW	2.526	-		3.860	0.0160	
10			1.260		60.000			44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54
	Iteq IT180A 4 mil core 1/1	4.000	4.000		4.400	0.0150		
		1.260		60.000				
11	Iteq IT180A Prepreg 106 RC71-NEW	1.779	3.558		3.790	0.0150		
	Iteq IT180A Prepreg 106 RC71-NEW	1.779	-		3.790	0.0150		
	Copper Foil 12 microns	1.850		100.000			55, 56, 57, 58, 59, 60, 61, 62, 63, 64	
12		Taiyo PSR 4000 HFX DI-GREEN	1.000			3.500	0.0270	

Copper Thickness = 16.299 | Dielectric Thickness = 50.492 | Solder Mask Thickness = 2.000 | Stack Up Thickness = 66.791 | Stack Up Thickness with Soldermask = 68.791


Impedance ID	Impedance Signal Layer	Structure Name	Ref. Plane 1 in Layer	Ref. Plane 2 in Layer	Lower Trace Width (W1)	Trace Separation (S1)	Ground Strip Separation (D1)	Calculated Impedance	Target Impedance	Tol (+/- %)	
1	1	Coated Microstrip 1B	2	0	5.900	0.000	0.000	50.130	50.000	10.000	
2	1	Edge Coupled Coated Microstrip 1B	2	0	4.100	6.200	0.000	99.940	100.000	10.000	

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Impedance ID	Impedance Signal Layer	Structure Name	Ref. Plane 1 in Layer	Ref. Plane 2 in Layer	Lower Trace Width (W1)	Trace Separation (S1)	Ground Strip Separation (D1)	Calculated Impedance	Target Impedance	Tol (+/- %)	
3	1	Edge Coupled Coated Microstrip 2B	3	0	4.000	5.500	0.000	119.710	120.000	10.000	
4	1	Coated Microstrip 1B	2	0	12.500	0.000	0.000	32.930	33.000	10.000	
5	1	Coated Microstrip 1B	2	0	9.000	0.000	0.000	40.160	40.000	10.000	
6	1	Edge Coupled Coated Microstrip 1B	2	0	9.100	4.500	0.000	66.170	66.000	10.000	
7	1	Edge Coupled Coated Microstrip 2B	3	0	4.000	7.800	0.000	133.220	133.000	10.000	
8	1	Edge Coupled Coated Microstrip 1B	2	0	6.000	4.500	0.000	80.200	80.000	10.000	
9	1	Edge Coupled Coated Microstrip 1B	2	0	4.500	4.500	0.000	89.820	90.000	10.000	
10	1	Edge Coupled Coated Microstrip 1B	2	0	5.200	4.500	0.000	85.020	85.000	10.000	
11	3	Offset Stripline 1B2A	2	4	8.000	0.000	0.000	32.780	33.000	10.000	
12	3	Edge Coupled Offset Stripline 1B2A	2	4	3.200	8.000	0.000	99.350	100.000	10.000	
13	3	Offset Stripline 1B2A	2	4	3.500	0.000	0.000	50.060	50.000	10.000	
14	3	Edge Coupled Offset Stripline 1B2A	2	4	4.300	4.500	0.000	80.590	80.000	10.000	
15	3	Edge Coupled Offset Stripline 1B2A	2	4	3.600	5.800	0.000	90.670	90.000	10.000	
16	3	Edge Coupled Offset Stripline 1B2A	2	4	6.600	4.500	0.000	66.110	66.000	10.000	
17	3	Edge Coupled Offset Stripline 1B2A	2	4	3.700	4.500	0.000	85.640	85.000	10.000	
18	3	Edge Coupled Offset Stripline 1B2A	2	4	3.200	16.000	0.000	103.650	133.000	10.000	
19	3	Offset Stripline 1B2A	2	4	5.700	0.000	0.000	39.720	40.000	10.000	
20	3	Offset Stripline 1B2A	2	4	3.200	0.000	0.000	51.970	66.000	10.000	
21	3	Edge Coupled Offset Stripline 1B2A	2	4	6.600	4.500	0.000	66.110	66.000	10.000	
22	5	Offset Stripline 1B2A	4	6	3.500	0.000	0.000	50.060	50.000	10.000	
23	5	Offset Stripline 1B2A	4	6	8.000	0.000	0.000	32.780	33.000	10.000	
24	5	Edge Coupled Offset Stripline 1B2A	4	6	6.600	4.500	0.000	66.110	66.000	10.000	
25	5	Edge Coupled Offset Stripline 1B2A	4	6	4.300	4.500	0.000	80.590	80.000	10.000	
26	5	Edge Coupled Offset Stripline 1B2A	4	6	3.200	8.000	0.000	99.350	100.000	10.000	

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Impedance ID	Impedance Signal Layer	Structure Name	Ref. Plane 1 in Layer	Ref. Plane 2 in Layer	Lower Trace Width (W1)	Trace Separation (S1)	Ground Strip Separation (D1)	Calculated Impedance	Target Impedance	Tol (+/- %)	
27	5	Offset Stripline 1B2A	4	6	5.700	0.000	0.000	39.720	40.000	10.000	
28	5	Edge Coupled Offset Stripline 1B2A	4	6	3.700	4.500	0.000	85.640	85.000	10.000	
29	5	Edge Coupled Offset Stripline 1B2A	4	6	3.600	5.800	0.000	90.670	90.000	10.000	
30	5	Edge Coupled Offset Stripline 1B2A	4	6	6.600	4.500	0.000	66.110	66.000	10.000	
31	5	Offset Stripline 1B2A	4	6	3.200	0.000	0.000	51.970	66.000	10.000	
32	5	Edge Coupled Offset Stripline 1B2A	4	6	3.200	16.000	0.000	103.650	133.000	10.000	
33	8	Edge Coupled Offset Stripline 1B2A	7	9	4.300	4.500	0.000	80.590	80.000	10.000	
34	8	Offset Stripline 1B2A	7	9	8.000	0.000	0.000	32.780	33.000	10.000	
35	8	Offset Stripline 1B2A	7	9	3.500	0.000	0.000	50.060	50.000	10.000	
36	8	Edge Coupled Offset Stripline 1B2A	7	9	3.700	4.500	0.000	85.640	85.000	10.000	
37	8	Edge Coupled Offset Stripline 1B2A	7	9	3.200	8.000	0.000	99.350	100.000	10.000	
38	8	Edge Coupled Offset Stripline 1B2A	7	9	6.600	4.500	0.000	66.110	66.000	10.000	
39	8	Offset Stripline 1B2A	7	9	3.200	0.000	0.000	51.970	66.000	10.000	
40	8	Edge Coupled Offset Stripline 1B2A	7	9	3.600	5.800	0.000	90.670	90.000	10.000	
41	8	Offset Stripline 1B2A	7	9	5.700	0.000	0.000	39.720	40.000	10.000	
42	8	Edge Coupled Offset Stripline 1B2A	7	9	6.600	4.500	0.000	66.110	66.000	10.000	
43	8	Edge Coupled Offset Stripline 1B2A	7	9	3.200	16.000	0.000	103.650	133.000	10.000	
44	10	Offset Stripline 1B2A	9	11	8.000	0.000	0.000	32.780	33.000	10.000	
45	10	Edge Coupled Offset Stripline 1B2A	9	11	3.200	8.000	0.000	99.350	100.000	10.000	
46	10	Offset Stripline 1B2A	9	11	3.500	0.000	0.000	50.060	50.000	10.000	
47	10	Edge Coupled Offset Stripline 1B2A	9	11	4.300	4.500	0.000	80.590	80.000	10.000	
48	10	Edge Coupled Offset Stripline 1B2A	9	11	3.600	5.800	0.000	90.670	90.000	10.000	
49	10	Edge Coupled Offset Stripline 1B2A	9	11	6.600	4.500	0.000	66.110	66.000	10.000	
50	10	Edge Coupled Offset Stripline 1B2A	9	11	3.700	4.500	0.000	85.640	85.000	10.000	

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Impedance ID	Impedance Signal Layer	Structure Name	Ref. Plane 1 in Layer	Ref. Plane 2 in Layer	Lower Trace Width (W1)	Trace Separation (S1)	Ground Strip Separation (D1)	Calculated Impedance	Target Impedance	Tol (+/- %)	
51	10	Edge Coupled Offset Stripline 1B2A	9	11	3.200	16.000	0.000	103.650	133.000	10.000	
52	10	Offset Stripline 1B2A	9	11	5.700	0.000	0.000	39.720	40.000	10.000	
53	10	Offset Stripline 1B2A	9	11	3.200	0.000	0.000	51.970	66.000	10.000	
54	10	Edge Coupled Offset Stripline 1B2A	9	11	6.600	4.500	0.000	66.110	66.000	10.000	
55	12	Edge Coupled Coated Microstrip 1B	11	0	4.100	6.200	0.000	99.940	100.000	10.000	
56	12	Coated Microstrip 1B	11	0	5.900	0.000	0.000	50.130	50.000	10.000	
57	12	Coated Microstrip 1B	11	0	9.000	0.000	0.000	40.160	40.000	10.000	
58	12	Edge Coupled Coated Microstrip 2B	10	0	4.000	5.500	0.000	119.710	120.000	10.000	
59	12	Coated Microstrip 1B	11	0	12.500	0.000	0.000	32.930	33.000	10.000	
60	12	Edge Coupled Coated Microstrip 1B	11	0	6.000	4.500	0.000	80.200	80.000	10.000	
61	12	Edge Coupled Coated Microstrip 1B	11	0	9.100	4.500	0.000	66.170	66.000	10.000	
62	12	Edge Coupled Coated Microstrip 2B	10	0	4.000	7.800	0.000	133.220	133.000	10.000	
63	12	Edge Coupled Coated Microstrip 1B	11	0	5.200	4.500	0.000	85.020	85.000	10.000	
64	12	Edge Coupled Coated Microstrip 1B	11	0	4.500	4.500	0.000	89.820	90.000	10.000	

Notes