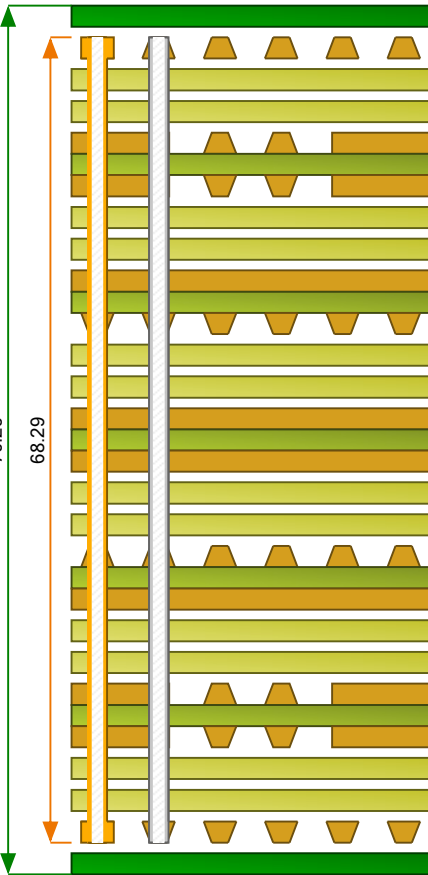




Layer	Stack up	Description	Processed Thickness	Isolation Distance (Summed)	Copper Coverage	ϵ_r	Loss Tangent	Impedance ID
1		Taiyo PSR 4000 HFX DI-GREEN	1.000			3.500	0.0270	
		Copper Foil 12 microns	1.850		100.000			1, 2, 3, 4, 5, 6, 7, 8
		Iteq IT180A Prepreg 106 RC71-NEW	1.779	3.558		3.790	0.0150	
		Iteq IT180A Prepreg 106 RC71-NEW	1.779	-		3.790	0.0150	
2			1.260		60.000			
		Iteq IT180A 4 mil core 1/1	4.000	4.000		4.400	0.0150	
3			1.260		50.000			9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19
		Iteq IT180A Prepreg 1080 RC65-NEW	2.471	5.718		3.860	0.0160	
		Iteq IT180A Prepreg 2113 RC58-NEW	3.247	-		4.130	0.0160	
4			1.260		60.000			
		Iteq IT180A 5 mil core 1/1	5.000	5.000		4.210	0.0150	
5			1.260		60.000			20, 21, 22, 23, 24, 25, 26, 27
		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	
6			1.260		60.000			
		Iteq IT180A 4 mil core 1/1	4.000	4.000		4.400	0.0150	
7			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	
8			1.260		60.000			28, 29, 30, 31, 32, 33, 34, 35
		Iteq IT180A 5 mil core 1/1	5.000	5.000		4.210	0.0150	
9			1.260		60.000			
		Iteq IT180A Prepreg 2113 RC58-NEW	3.104	5.466		4.130	0.0160	
		Iteq IT180A Prepreg 1080 RC65-NEW	2.362	-		3.860	0.0160	
10			1.260		30.000			36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46
		Iteq IT180A 4 mil core 1/1	4.000	4.000		4.400	0.0150	
11			1.260		60.000			
		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	
12		Copper Foil 12 microns	1.850		100.000			47, 48, 49, 50, 51, 52, 53, 54
		Taiyo PSR 4000 HFX DI-GREEN	1.000			3.500	0.0270	


Copper Thickness = 16.299 | Dielectric Thickness = 51.988 | Solder Mask Thickness = 2.000 | Stack Up Thickness = 68.287 | Stack Up Thickness with Soldermask = 70.287

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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 (+/- %)	
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	
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	3	Offset Stripline 1B2A	2	4	8.000	0.000	0.000	32.610	33.000	10.000	
10	3	Offset Stripline 1B2A	2	4	3.500	0.000	0.000	49.870	50.000	10.000	
11	3	Edge Coupled Offset Stripline 1B2A	2	4	4.300	4.500	0.000	80.400	80.000	10.000	
12	3	Edge Coupled Offset Stripline 1B2A	2	4	3.200	8.000	0.000	99.070	100.000	10.000	
13	3	Edge Coupled Offset Stripline 1B2A	2	4	6.600	4.500	0.000	65.900	66.000	10.000	
14	3	Edge Coupled Offset Stripline 1B2A	2	4	3.700	4.500	0.000	85.450	85.000	10.000	
15	3	Edge Coupled Offset Stripline 1B2A	2	4	3.600	5.800	0.000	90.450	90.000	10.000	
16	3	Offset Stripline 1B2A	2	4	5.700	0.000	0.000	39.530	40.000	10.000	
17	3	Offset Stripline 1B2A	2	4	3.000	0.000	0.000	53.120	66.000	10.000	
18	3	Edge Coupled Offset Stripline 1B2A	2	4	3.000	16.000	0.000	105.990	133.000	10.000	
19	3	Edge Coupled Offset Stripline 1B2A	2	4	6.600	4.500	0.000	65.900	66.000	10.000	
20	5	Offset Stripline 1B2A	4	6	4.250	0.000	0.000	49.850	50.000	10.000	
21	5	Offset Stripline 1B2A	4	6	9.150	0.000	0.000	33.350	33.000	10.000	
22	5	Edge Coupled Offset Stripline 1B2A	4	6	3.500	6.300	0.000	98.360	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 (+/- %)	
23	5	Edge Coupled Offset Stripline 1B2A	4	6	8.300	6.166	0.000	66.030	66.000	10.000	
24	5	Offset Stripline 1B2A	4	6	6.600	0.000	0.000	40.230	40.000	10.000	
25	5	Edge Coupled Offset Stripline 1B2A	4	6	4.500	4.500	0.000	83.590	85.000	10.000	
26	5	Edge Coupled Offset Stripline 1B2A	4	6	5.200	4.500	0.000	78.770	80.000	10.000	
27	5	Edge Coupled Offset Stripline 1B2A	4	6	4.000	4.700	0.000	88.320	90.000	10.000	
28	8	Edge Coupled Offset Stripline 1B2A	7	9	3.500	6.300	0.000	98.360	100.000	10.000	
29	8	Offset Stripline 1B2A	7	9	4.250	0.000	0.000	49.850	50.000	10.000	
30	8	Offset Stripline 1B2A	7	9	9.150	0.000	0.000	33.350	33.000	10.000	
31	8	Edge Coupled Offset Stripline 1B2A	7	9	4.500	4.500	0.000	83.590	85.000	10.000	
32	8	Edge Coupled Offset Stripline 1B2A	7	9	8.300	6.166	0.000	66.030	66.000	10.000	
33	8	Offset Stripline 1B2A	7	9	6.600	0.000	0.000	40.230	40.000	10.000	
34	8	Edge Coupled Offset Stripline 1B2A	7	9	4.000	4.700	0.000	88.320	90.000	10.000	
35	8	Edge Coupled Offset Stripline 1B2A	7	9	5.200	4.500	0.000	78.770	80.000	10.000	
36	10	Offset Stripline 1B2A	9	11	3.500	0.000	0.000	49.870	50.000	10.000	
37	10	Edge Coupled Offset Stripline 1B2A	9	11	6.600	4.500	0.000	65.900	66.000	10.000	
38	10	Edge Coupled Offset Stripline 1B2A	9	11	4.300	4.500	0.000	80.400	80.000	10.000	
39	10	Offset Stripline 1B2A	9	11	8.000	0.000	0.000	32.610	33.000	10.000	
40	10	Offset Stripline 1B2A	9	11	5.700	0.000	0.000	39.530	40.000	10.000	
41	10	Edge Coupled Offset Stripline 1B2A	9	11	3.700	4.500	0.000	85.450	85.000	10.000	
42	10	Edge Coupled Offset Stripline 1B2A	9	11	3.200	8.000	0.000	99.070	100.000	10.000	
43	10	Edge Coupled Offset Stripline 1B2A	9	11	6.600	4.500	0.000	65.900	66.000	10.000	
44	10	Offset Stripline 1B2A	9	11	3.000	0.000	0.000	53.120	66.000	10.000	

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45	10	Edge Coupled Offset Stripline 1B2A	9	11	3.600	5.800	0.000	90.450	90.000	10.000	
46	10	Edge Coupled Offset Stripline 1B2A	9	11	3.000	16.000	0.000	105.990	133.000	10.000	
47	12	Edge Coupled Coated Microstrip 1B	11	0	4.100	6.200	0.000	99.940	100.000	10.000	
48	12	Coated Microstrip 1B	11	0	5.900	0.000	0.000	50.130	50.000	10.000	
49	12	Coated Microstrip 1B	11	0	12.500	0.000	0.000	32.930	33.000	10.000	
50	12	Coated Microstrip 1B	11	0	9.000	0.000	0.000	40.160	40.000	10.000	
51	12	Edge Coupled Coated Microstrip 2B	10	0	4.000	5.500	0.000	119.710	120.000	10.000	
52	12	Edge Coupled Coated Microstrip 2B	10	0	4.000	7.800	0.000	133.220	133.000	10.000	
53	12	Edge Coupled Coated Microstrip 1B	11	0	6.000	4.500	0.000	80.200	80.000	10.000	
54	12	Edge Coupled Coated Microstrip 1B	11	0	9.100	4.500	0.000	66.170	66.000	10.000	

Notes

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