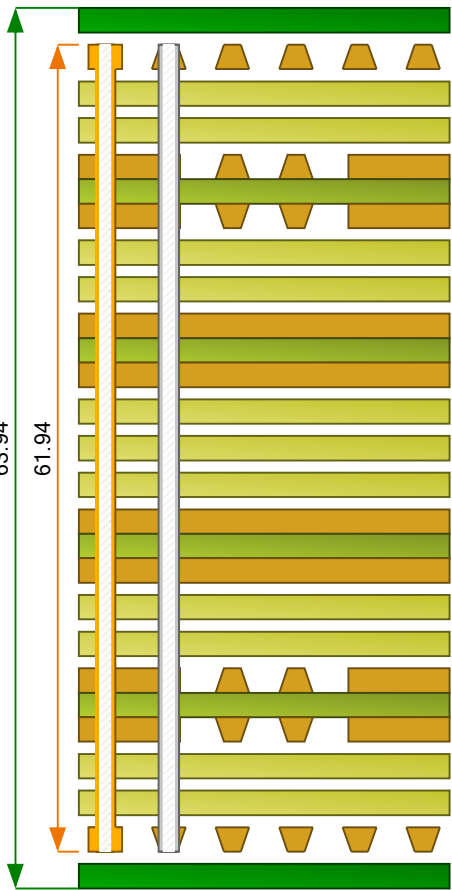


Layer	Stack up	Description	Processed Thickness	Isolation Distance (Summed)	Copper Coverage	εr	Impedance ID	Supplier Description	Tg		
1		Taiyo PSR 4000 HFX DI-GREEN	1.000			3.500		PSR 4000			
		Copper Foil 12 microns	1.850		100.000		1, 2, 3, 4, 5, 6, 7	HI-Q Foil			
2		Iteq IT180A Prepreg 106 RC71-NEW	1.779	3.558		3.790		IPC-4101E / 99/ 101/ 126	170.000		
		Iteq IT180A Prepreg 106 RC71-NEW	1.779	-		3.790		IPC-4101E / 99/ 101/ 126	170.000		
3		Iteq IT180A 4 mil core 1/1	1.260		60.000						
		Iteq IT180A 4 mil core 1/1	4.000	4.000		4.400		IPC-4101E / 99/ 101/ 126	170.000		
4		Iteq IT180A Prepreg 2113 RC58-NEW	1.260		46.000		8, 9, 10, 11, 12				
		Iteq IT180A Prepreg 2113 RC58-NEW	3.298	6.597		4.130		IPC-4101E / 99/ 101/ 126	170.000		
5		Iteq IT180A Prepreg 2113 RC58-NEW	3.298	-		4.130		IPC-4101E / 99/ 101/ 126	170.000		
		Iteq IT180A 5 mil core 1/1	1.260		60.000						
6		Iteq IT180A 5 mil core 1/1	5.000	5.000		4.210		IPC-4101E / 99/ 101/ 126	170.000		
		Iteq IT180A Prepreg 106 RC71-NEW	1.260		57.000						
7		Iteq IT180A Prepreg 106 RC71-NEW	1.817	9.823		3.790		IPC-4101E / 99/ 101/ 126	170.000		
		Iteq IT180A Prepreg 7628 RC43-NEW	6.190	-		4.450		IPC-4101E / 99/ 101/ 126	170.000		
8		Iteq IT180A Prepreg 106 RC71-NEW	1.817	-		3.790		IPC-4101E / 99/ 101/ 126	170.000		
		Iteq IT180A 5 mil core 1/1	1.260		51.000						
9		Iteq IT180A 5 mil core 1/1	5.000	5.000		4.210		IPC-4101E / 99/ 101/ 126	170.000		
		Iteq IT180A Prepreg 2113 RC58-NEW	1.260		61.000						
10		Iteq IT180A Prepreg 2113 RC58-NEW	3.311	6.622		4.130		IPC-4101E / 99/ 101/ 126	170.000		
		Iteq IT180A Prepreg 2113 RC58-NEW	3.311	-		4.130		IPC-4101E / 99/ 101/ 126	170.000		
11		Iteq IT180A 4 mil core 1/1	1.260		47.000		13, 14, 15, 16, 17				
		Iteq IT180A 4 mil core 1/1	4.000	4.000		4.400		IPC-4101E / 99/ 101/ 126	170.000		
12		Iteq IT180A Prepreg 106 RC71-NEW	1.260		60.000						
		Iteq IT180A Prepreg 106 RC71-NEW	1.779	3.558		3.790		IPC-4101E / 99/ 101/ 126	170.000		
13		Iteq IT180A Prepreg 106 RC71-NEW	1.779	-		3.790		IPC-4101E / 99/ 101/ 126	170.000		
		Copper Foil 12 microns	1.850		100.000		18, 19, 20, 21, 22, 23	HI-Q Foil			
14		Taiyo PSR 4000 HFX DI-GREEN	1.000			3.500		PSR 4000			

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Department: Engg-CAM									
Site: www.hiqelectronics.com									

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)	Target Impedance	Calculated Impedance	Tol (+/- %)	
1	1	Coated Microstrip 1B	2	0	9.050	0.000	0.000	40.000	40.030	10.000	
2	1	Coated Microstrip 1B	2	0	5.800	0.000	0.000	50.000	50.540	10.000	
3	1	Edge Coupled Coated Microstrip 1B	2	0	4.250	7.150	0.000	100.000	101.270	10.000	
4	1	Edge Coupled Coated Microstrip 1B	2	0	4.200	4.400	0.000	90.000	91.560	10.000	
5	1	Edge Coupled Coated Microstrip 1B	2	0	6.020	4.800	0.000	80.000	81.230	10.000	
6	1	Edge Coupled Coated Microstrip 2B	3	0	4.100	5.750	0.000	120.000	118.350	10.000	
7	1	Coated Coplanar Strips With Lower Ground 2B	3	0	16.000	0.000	14.000	50.000	49.090	10.000	
8	3	Offset Stripline 1B1A	2	4	5.800	0.000	0.000	40.000	39.930	10.000	
9	3	Edge Coupled Offset Stripline 1B1A	2	4	3.200	7.500	0.000	100.000	98.350	10.000	
10	3	Edge Coupled Offset Stripline 1B1A	2	4	3.700	6.000	0.000	90.000	89.870	10.000	
11	3	Edge Coupled Offset Stripline 1B1A	2	4	4.200	4.300	0.000	80.000	80.240	10.000	
12	3	Offset Stripline 1B1A	2	4	3.600	0.000	0.000	50.000	49.920	10.000	
13	8	Offset Stripline 1B1A	7	9	5.800	0.000	0.000	40.000	39.930	10.000	
14	8	Edge Coupled Offset Stripline 1B1A	7	9	3.200	7.500	0.000	100.000	98.350	10.000	
15	8	Edge Coupled Offset Stripline 1B1A	7	9	3.700	6.000	0.000	90.000	89.870	10.000	
16	8	Edge Coupled Offset Stripline 1B1A	7	9	4.200	4.300	0.000	80.000	80.240	10.000	
17	8	Offset Stripline 1B1A	7	9	3.600	0.000	0.000	50.000	49.920	10.000	
18	10	Coated Microstrip 1B	9	0	9.050	0.000	0.000	40.000	40.030	10.000	
19	10	Coated Microstrip 1B	9	0	5.800	0.000	0.000	50.000	50.540	10.000	
20	10	Edge Coupled Coated Microstrip 1B	9	0	4.250	7.150	0.000	100.000	101.270	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)	Target Impedance	Calculated Impedance	Tol (+/- %)	
21	10	Edge Coupled Coated Microstrip 1B	9	0	4.200	4.400	0.000	90.000	91.560	10.000	
22	10	Edge Coupled Coated Microstrip 1B	9	0	6.020	4.800	0.000	80.000	81.230	10.000	
23	10	Edge Coupled Coated Microstrip 2B	8	0	4.100	5.750	0.000	120.000	118.350	10.000	

Notes

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