
























Layer	Stack up	Finish Thickness	Type	$\epsilon_r$	Impedance ID	Supplier Description	Isolation Distance (Summed)
1		4.00					
		1.37	Copper		1, 2, 3, 4	FO/001	
		1.71	Dielectric	3.90		IT-180A	3.42
2		1.71	Dielectric	3.90		IT-180A	-
		1.26					
		3.94	fr4	4.25		IT-180A	3.94
3		0.57			5, 6, 7, 8		
		1.71	Dielectric	3.90		IT-180A	40.23
		1.71	Dielectric	3.90		IT-180A	-
4		33.39	fr4	4.50		IT-180A	-
		1.71	Dielectric	3.90		IT-180A	-
		1.71	Dielectric	3.90		IT-180A	-
5		0.57			9, 10, 11, 12		
		3.94	fr4	4.25		IT-180A	3.94
		1.26					
6		1.71	Dielectric	3.90		IT-180A	3.42
		1.71	Dielectric	3.90		IT-180A	-
		1.37	Copper		13, 14, 15, 16	FO/001	
		4.00					

Impedance Signal Layer	Ref. Plane 1 in Layer	Ref. Plane 2 in Layer	Lower Trace Width (W1)	Trace Separation (S1)	Target Impedance	Calculated Impedance	Tol (+/- %)	Ground Strip Separation (D1)	Structure Name	Substrate 1 Height (H1)	Substrate 2 Height (H2)	Structure Image
1	2	0	4.10	5.00	100.00	99.90	10.00	0.00	Edge Coupled Coated Microstrip 1B	3.42	1.71	
1	2	0	6.00	0.00	50.00	49.09	10.00	0.00	Coated Microstrip 1B	3.42	1.71	
1	2	0	5.50	5.50	90.00	89.72	10.00	0.00	Edge Coupled Coated Microstrip 1B	3.42	1.71	
1	2	0	6.00	5.00	85.00	84.81	10.00	0.00	Edge Coupled Coated Microstrip 1B	3.42	1.71	

StackName: Master	Version:	Revision:	Modification:	Date of Revision:	Editor	Page 1/3	
Date: 1/14/2019	Associated Documents:						
Author: Elena							
Department: ENG							
Site:							

Impedance Signal Layer	Ref. Plane 1 in Layer	Ref. Plane 2 in Layer	Lower Trace Width (W1)	Trace Separation (S1)	Target Impedance	Calculated Impedance	Tol (+/- %)	Ground Strip Separation (D1)	Structure Name	Substrate 1 Height (H1)	Substrate 2 Height (H2)	Structure Image	
3	2	5	5.50	0.00	50.00	49.30	10.00	0.00	Offset Stripline 1B1A	3.94	40.23		
3	2	5	4.00	7.00	100.00	100.36	10.00	0.00	Edge Coupled Offset Stripline 1B1A	3.94	40.23		
3	2	5	5.00	6.00	90.00	89.10	10.00	0.00	Edge Coupled Offset Stripline 1B1A	3.94	40.23		
3	2	5	6.00	7.50	85.00	84.80	10.00	0.00	Edge Coupled Offset Stripline 1B1A	3.94	40.23		
4	2	5	5.50	0.00	50.00	49.30	10.00	0.00	Offset Stripline 1B1A	3.94	40.23		
4	2	5	4.00	7.00	100.00	100.36	10.00	0.00	Edge Coupled Offset Stripline 1B1A	3.94	40.23		
4	2	5	5.00	6.00	90.00	89.10	10.00	0.00	Edge Coupled Offset Stripline 1B1A	3.94	40.23		
4	2	5	6.00	7.50	85.00	84.80	10.00	0.00	Edge Coupled Offset Stripline 1B1A	3.94	40.23		
6	5	0	4.10	5.00	100.00	99.90	10.00	0.00	Edge Coupled Coated Microstrip 1B	3.42	1.71		
6	5	0	6.00	0.00	50.00	49.09	10.00	0.00	Coated Microstrip 1B	3.42	1.71		
6	5	0	5.50	5.50	90.00	89.72	10.00	0.00	Edge Coupled Coated Microstrip 1B	3.42	1.71		

StackName:	Version:	Revision:	Modification:	Date of Revision:	Editor	Page 2/3	
Date: 1/14/2019	Associated Documents:						
Author: Elena							
Department: ENG							
Site:							

Units: MILS



Impedance Signal Layer	Ref. Plane 1 in Layer	Ref. Plane 2 in Layer	Lower Trace Width (W1)	Trace Separation (S1)	Target Impedance	Calculated Impedance	Tol (+/- %)	Ground Strip Separation (D1)	Structure Name	Substrate 1 Height (H1)	Substrate 2 Height (H2)	Structure Image	
------------------------------	-----------------------------	-----------------------------	---------------------------------	-----------------------------	---------------------	-------------------------	----------------	---------------------------------------	----------------	-------------------------------	-------------------------------	--------------------	--

6 5 0 6.00 5.00 85.00 84.81 10.00 0.00 Edge Coupled Coated Microstrip 1B 3.42 1.71



Drill Image	1st Layer	2nd Layer	Column Position	Drill Type	Minimum Size	
-------------	-----------	-----------	--------------------	------------	--------------	--



1 6 1 Mechanical PTH 8.00

**Notes**

StackName:	Version:	Revision:	Modification:	Date of Revision:	Editor	Page 3/3	
Date: 1/14/2019	Associated Documents:						
Author: Elena							
Department: ENG							
Site:							