

				Supplier					Base	Processed
Layer		Stack up	Supplier	Description	Description	Туре	Impedance ID	εr	Thickness	
			Polar Samples	SM/001	Liquid PhotoImageable Mask	SolderMask		4.000		1.000
1	1		GOULD	COPPER FOIL	12+35 m	NA	1, 2, 3, 4		1.850	2.550
			ISOLA	185 HR	# 106	Dielectric		3.890	2.100	2.082
			ISOLA	185 HR	# 106	Dielectric		3.890	2.100	2.082
2			10.01						0.709	0.709
3	1 4/1		ISOLA	185HR	0.114 0.5/0.5	FR4	5, 6, 7, 8	4.420	4.488 0.709	4.488 0.709
			ISOLA	185 HR	# 106	Dielectric	.,.,	3.890	2.100	1.911
			ISOLA	185 HR	# 106	Dielectric			2.100	1.911
			ISOLA	185 HR	# 106	Dielectric		3.890		1.911
4									0.709	0.709
-			ISOLA	185HR	0.114 0.5/0.5	FR4	0.40.44	4.420	4.488	4.488
5			1001.1				9, 10, 11		0.709	0.709
			ISOLA	185 HR	# 106	Dielectric			2.100	1.911
			ISOLA	185 HR	# 106	Dielectric			2.100	1.911
			ISOLA	185 HR	# 106	Dielectric		3.890		1.911
6			ISOLA	185HR	0.114 0.5/0.5	FR4		4.420	0.709 4.488	0.709 4.488
7	3								0.709	0.709
			ISOLA	185 HR	# 106	Dielectric		3.890	2.100	1.911
			ISOLA	185 HR	# 106	Dielectric		3.890	2.100	1.911
			ISOLA	185 HR	# 106	Dielectric		3.890	2.100	1.911
8	1 4/4						12, 13, 14		0.709	0.709
9	1 1/9-		ISOLA	185HR	0.114 0.5/0.5	FR4		4.420	4.488 0.709	4.488 0.709
	1 7/5		ISOLA	185 HR	# 106	Dielectric		3.890	2.100	1.911
			ISOLA	185 HR	# 106	Dielectric			2.100	1.911
			ISOLA	185 HR	# 106	Dielectric		3.890		1.911
10	1 7/						15, 16, 17, 18		0.709	0.709
			ISOLA	185HR	0.114 0.5/0.5	FR4		4.420	4.488	4.488
11			ISOLA	105 UD	# 106	Distratio		2 000	0.709	0.709
				185 HR		Dielectric			2.100	2.082
40	1 9/5		ISOLA	185 HR	# 106	Dielectric	10 00 01 00	3.890		2.082
12	-		GOULD Delea Consular	COPPER FOIL	12+35 m	NA Caldadaala	19, 20, 21, 22	4.000	1.850	2.550
			Polar Samples	SM/001	Liquid PhotoImageable Mask	SolderMask		4.000		1.000 SS 888 I Stack IIn Thickness with Soldermask = 67.888 I

Copper Thickness = 12.187 | Dielectric Thickness = 53.701 | Solder Mask Thickness = 2.000 | Stack Up Thickness = 65.888 | Stack Up Thickness with Soldermask = 67.888 | Stack Up Cost = 24.00 |

					Lower	_				Ground
Impedance	a	Impedance Signal	Plane 1	Ref. Plane 2	Trace Width	Trace Separation	Calculated	Target	Tol (+/-	Strip Separation
ID	Structure Name	Layer	in Layer	in Layer	(W1)	(S1)	Impedance	Impedance	%)	(D1)
1	Coated Microstrip 1B	1	2	0	9.000	0.000	42.540	42.000	10.000	0.000
2	Coated Microstrip 1B	1	2	0	5.656	0.000	51.870	50.000	10.000	0.000
3	Edge Coupled Coated Microstrip 1B	1	2	0	4.252	4.948	90.100	90.000	10.000	0.000
	Edge Coupled Coated Microstrip 1B	1	2	0	3.700	6.300	101.560	100.000	10.000	0.000
				U						
5	Offset Stripline 1B1A	3	2	4	6.000	0.000	41.970	42.000	10.000	0.000
6	Offset Stripline 1B1A	3	2	4	4.000	0.000	51.540	50.000	10.000	0.000
7	Edge Coupled Offset Stripline 1B1A	3	2	4	4.000	4.500	91.150	90.000	10.000	0.000
8	Edge Coupled Offset Stripline 1B1A	3	2	4	4.000	8.000	98.940	100.000	10.000	0.000
9	Offset Stripline 1B1A	5	4	7	6.000	0.000	41.970	42.000	10.000	0.000
	Offset Stripline 1B1A	5	1	7	4.000	0.000		50.000	10.000	0.000
10	Oliset Stripline 181A	3	4		4.000	0.000	31.040	50.000	10.000	0.000

StackName: Master	Version:	Revision:	Modification:	Date of Revision:	Editor	
Date: 24/08/2018	Associated Documents:					_
Author:						Page 1/2
Department:						
Site:						



Structure Name	Impedance Signal Layer	Ref. Plane 1 in Layer		Lower Trace Width (W1)	Trace Separation (S1)	Calculated Impedance	Target Impedance	Tol (+/- %)	Ground Strip Separation (D1)	
Edge Coupled Offset Stripline 1B1A	5	4	7	4.000	8.000	98.940	100.000	10.000	0.000	
Offset Stripline 1B1A	8	6	9	6.000	0.000	41.970	42.000	10.000	0.000	
Offset Stripline 1B1A	8	6	9	4.000	0.000	51.540	50.000	10.000	0.000	
Edge Coupled Offset Stripline 1B1A	8	6	9	4.000	8.000	98.940	100.000	10.000	0.000	
Offset Stripline 1B1A	10	9	11	6.000	0.000	41.970	42.000	10.000	0.000	
Offset Stripline 1B1A	10	9	11	4.000	0.000	51.540	50.000	10.000	0.000	
Edge Coupled Offset Stripline 1B1A	10	9	11	4.000	4.500	91.150	90.000	10.000	0.000	
Edge Coupled Offset Stripline 1B1A	10	9	11	4.000	8.000	98.940	100.000	10.000	0.000	
Coated Microstrip 1B	12	11	0	9.000	0.000	42.540	42.000	10.000	0.000	
Coated Microstrip 1B	12	11	0	5.656	0.000	51.870	50.000	10.000	0.000	
Edge Coupled Coated Microstrip 1B	12	11	0	4.252	4.948	90.100	90.000	10.000	0.000	
Edge Coupled Coated Microstrip 1B	12	11	0	3.700	6.300	101.560	100.000	10.000	0.000	
	Edge Coupled Offset Stripline 1B1A Offset Stripline 1B1A Offset Stripline 1B1A Edge Coupled Offset Stripline 1B1A Offset Stripline 1B1A Offset Stripline 1B1A Edge Coupled Offset Stripline 1B1A Edge Coupled Offset Stripline 1B1A Edge Coupled Offset Stripline 1B1A Coated Microstrip 1B Edge Coupled Coated Microstrip 1B	Structure Name Signal Layer Edge Coupled Offset Stripline 1B1A 5 Offset Stripline 1B1A 8 Offset Stripline 1B1A 8 Edge Coupled Offset Stripline 1B1A 10 Offset Stripline 1B1A 10 Edge Coupled Offset Stripline 1B1A 10 Edge Coupled Offset Stripline 1B1A 10 Coated Microstrip 1B 12 Coated Microstrip 1B 12 Edge Coupled Coated Microstrip 1B 12	Structure Name Signal Layer Plane 1 in Layer Edge Coupled Offset Stripline 1B1A 5 4 Offset Stripline 1B1A 8 6 Offset Stripline 1B1A 8 6 Edge Coupled Offset Stripline 1B1A 8 6 Offset Stripline 1B1A 10 9 Offset Stripline 1B1A 10 9 Edge Coupled Offset Stripline 1B1A 10 9 Edge Coupled Offset Stripline 1B1A 10 9 Coated Microstrip 1B 12 11 Coated Microstrip 1B 12 11 Edge Coupled Coated Microstrip 1B 12 11	Structure Name Signal Layer Plane 1 in Layer Plane 2 in Layer Edge Coupled Offset Stripline 1B1A 5 4 7 Offset Stripline 1B1A 8 6 9 Offset Stripline 1B1A 8 6 9 Edge Coupled Offset Stripline 1B1A 10 9 11 Offset Stripline 1B1A 10 9 11 Edge Coupled Offset Stripline 1B1A 10 9 11 Edge Coupled Offset Stripline 1B1A 10 9 11 Coated Microstrip 1B 12 11 0 Coated Microstrip 1B 12 11 0 Edge Coupled Coated Microstrip 1B 12 11 0	Structure Name	Impedance Signal Plane Plane 2 Plane	Structure Name Impedance Signal Plane 2 Signal in Layer Ref. Plane 2 Plane 2 Plane 2 Width (W1) Trace Separation (S1) Calculated Impedance Plane (Impedance Impedance	Structure Name Impedance Signal Structure Name Ref. Signal In Layer In L	Structure Name Impedance Signal Signal Signal Layer Ref. in Layer Trace Width (NI) Trace Width (mpedance Separation (may) Target Impedance (may) Tol (+/-) Edge Coupled Offset Stripline 1B1A 5 4 7 4.000 8.000 98.940 100.000 10.000 Offset Stripline 1B1A 8 6 9 4.000 0.000 51.540 50.000 10.000 Edge Coupled Offset Stripline 1B1A 8 6 9 4.000 8.000 98.940 100.000 10.000 Edge Coupled Offset Stripline 1B1A 8 6 9 4.000 8.000 98.940 100.000 10.000 Offset Stripline 1B1A 10 9 11 6.000 0.000 41.970 42.000 10.000 Offset Stripline 1B1A 10 9 11 4.000 0.000 51.540 50.000 10.000 Edge Coupled Offset Stripline 1B1A 10 9 11 4.000 8.000 98.940 100.000 10.000 Edge Coupled Offset Stripline 1B1A <td> Structure Name</td>	Structure Name

Drill Image 1st Layer 2nd Layer Position Drill Type

1

Mechanical PTH

Notes

StackName:	Version:	Revision:	Modification:	Date of Revision:	Editor		
Date: 24/08/2018	Associated Documents:					_	
Author:						Page 2/2	
Department:							
Site:							