## \*\*\* Valued Customer: If this stackup is accepted, please add this PDF to the production data package. \*\*\* \*\*\* Preliminary stack up subject to change based on review of final data and technology. \*\*\*

Job number:	TI 6 LYR 051618 PR0C010	Material:	RO4835 LOPRO, 370
Part number:	PR0C010, Rev: B	Impedance:	Yes
Customer:	TEXAS INSTRUMENTS	Date:	28-Nov-2018
Panel size:	18X24	Created by:	Mike Garrett

## **External Stackup Report**



Layer	Туре	CU Weight	CU %	Material Description	Via Structure	Segment	Glass Style	Material Family	Dielectric constant @ 1GHz	Thickness After lamination [mil]
Solderma	sk						1			0.80
1	Mixed	Н	37							1.60
				4.0 mil H/1		Core		RO4835 LOPRO	3.66	4.00
2	Plane	1	88							1.20
				Press thk = 5.70 mil		Prepreg	1080(66)	370HR	3.90	5.70
							1080(66)	370HR	3.90	
3	Mixed	1	70							1.20
				28.0 mil 1/1		Core	4-7628	370HR	4.36	28.00
4	Mixed	1	82							1.20
				Press thk = 5.84 mil		Prepreg	1080(66)	370HR	3.90	5.84
							1080(66)	370HR	3.90	
5	Plane	1	88							1.20
				4.0 mil 1/H		Core	1-2116	370HR	4.26	4.00
6	Mixed	Н	49							1.60
Solderma	sk									0.80

Specification (Over mask on plated	mil			
Overall Board Thickness:	1	62.0	7	
Tolerance:		+6.2/-6.2		
Min-Max Board Thickness:		55.8-68.2		

	Anticipated Board Thickness:	mil
	After lamination:	53.54
7	Over mask on plated copper:	57.14

## Grain in 18" Dimension

Impedance	Table									InSolver
Layer	Impedance	Tolerance [ohms]	Туре	Upper	Lower	Designed	Designed	Finished	Finished	Impedance
	Requirement			Reference	Ref	Line Width	Spacing	Line Width	Spacing	Simulation
	[ohms]	-		1 /		[Mil]	[Mil]	[Mil]	[Mil]	[ohms]
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## Remarks

PRELIMINARY STACK UP

Differential

<sup>\*</sup> Any targeted thickness .0046" and greater shall have a minimum tolerance of +/-.001 after lamination.

<sup>\*</sup> Any targeted thickness .0045" and below shall not be held to the minimum dielectric .0035429" as specified in IPC-6012 section 3.6.2.15. Unless agreed upon in writing from Streamline Circuits Inc. The minimum thickness per this exception shall not be less than .0009839" per IPC-6012 section 3.6.2.17.