

*** Valued Customer: If this stackup is accepted, please add this PDF to the production data package ***

Job number:	JC739791	Material:	N4000-13EP	Stackup Report	Report v1.38 External	G O R I L L A C I R C U I T S I N C .	
Part number:	DC2610A	Impedance:	Yes				
Customer:	LINEAR TECHNOLOGY	Date:	21-Mar-2017				
Panel size:	18X24	Created by:	JACKIE				

Layer	Type	CU Weight	CU %	Material Description	Via Structure	Segment	Glass Style	Material Family	Dielectric constant	Copper Plating Thickness [mil]	Thickness after lamination [mil]
Soldermask											0.80
I1comp	Signal	1.0	76	Press thk = 10.82 mil		Foil					2.60 *
						Prepreg	1080(65)	N4000-13EP	3.20	1.40	10.82
							2113(58)	N4000-13EP	3.20		
							2113(58)	N4000-13EP	3.20		
I2pp	Plane	1.0	68	10.0 mil 1/1		Core		N4000-13EP	3.20		1.20
I3pp	Plane	1.0	67	Press thk = 9.62 mil		Prepreg	1080(65)	N4000-13EP	3.20		10.00
							2113(58)	N4000-13EP	3.20		1.20
							1080(65)	N4000-13EP	3.20		9.62
I4pp	Plane	1.0	68	10.0 mil 1/1		Core		N4000-13EP	3.20		1.20
I5pp	Plane	1.0	68	Press thk = 10.82 mil		Prepreg	2113(58)	N4000-13EP	3.20		10.00
							2113(58)	N4000-13EP	3.20		1.20
							1080(65)	N4000-13EP	3.20		10.82
I6sold	Signal	1.0	76			Foil				1.40	2.60 *
Soldermask											0.80

* Estimated Cu Plating for reference use only.

Specification (Over mask on plated copper:):	mil
Overall Board Thickness:	62.00
Tolerance:	+5.0/-5.0
Min-Max Board Thickness:	57.0-67.0

Anticipated Board Thickness:	mil
After lamination:	58.45
Over mask on plated copper::	62.85

Impedance Table

Layer	Impedance Requirement [ohms]	Tolerance [ohms]		Type	Upper Ref	Lower Ref	Designed Line Width [mil]	Plotted Line Width [mil]	Designed Spacing [mil]	Coplanar Spacing [mil]	Finished Line Width [mil]	Finished Spacing [mil]	Impedance Simulation [ohms]
		+	-										
I1comp	50	5.0	5.0	Coated microstrip SE	--	I2pp	20.00	20.25	--	--	19.50	--	49.9
I6sold	50	5.0	5.0	Coated microstrip SE	--	I5pp	20.00	20.25	--	--	19.50	--	49.9

Remarks:

Please Note: The stackup may change if the final manufacturing data is different from the information used to create this stackup

Mat Typ	Material Description	Rsn%	PNL	1 Pnl	Notes
Foil	Foil - 1 oz - Foil		18x24	2	
Core	N4000-13EP - 10.0 mil 1/1		18x24	2	
Prepreg	N4000-13EP - 1080	65%	18x24	4	
Prepreg	N4000-13EP - 2113	58%	18x24	5	

Drill Progs	Technology	Depth
drill	Mechanical	58.45