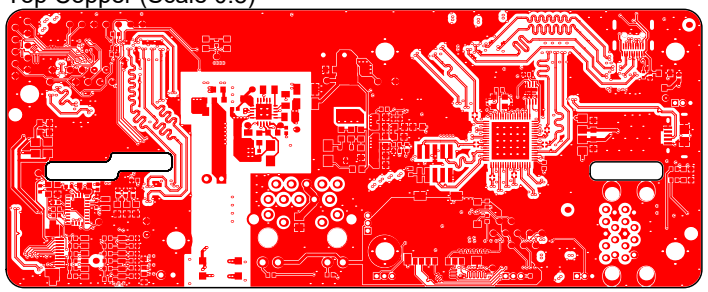
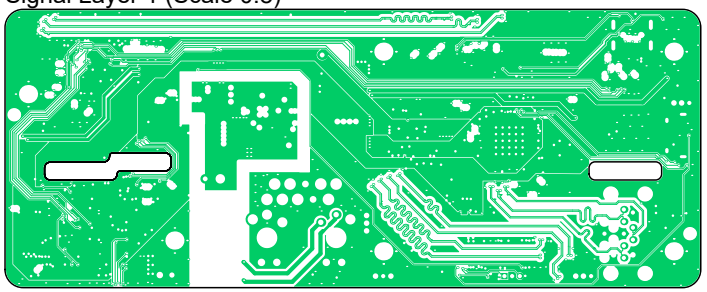
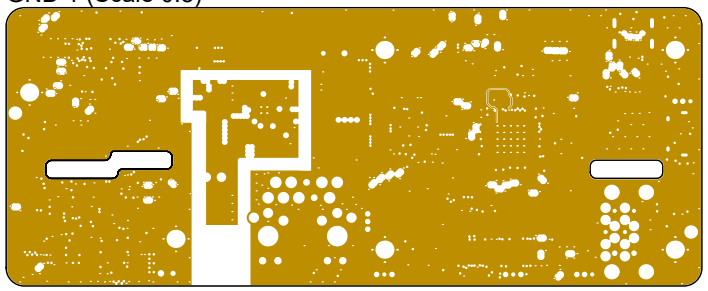
Top Copper (Scale 0.8)



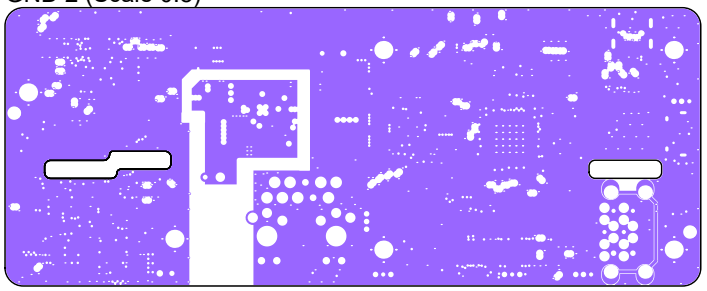
Signal Layer 1 (Scale 0.8)



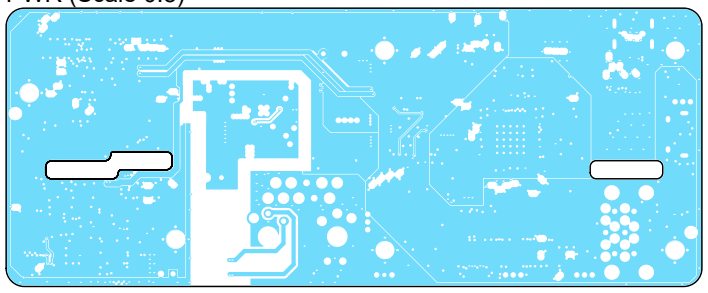
GND 1 (Scale 0.8)



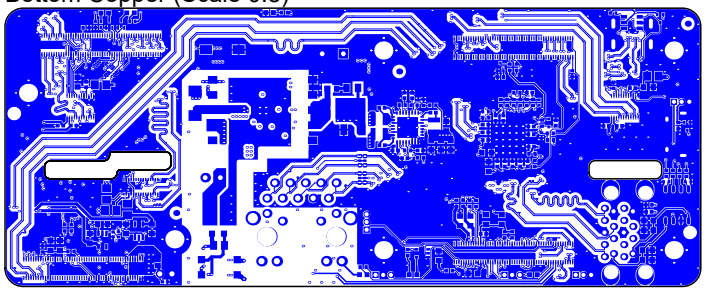
GND 2 (Scale 0.8)



PWR (Scale 0.8)



Bottom Copper (Scale 0.8)



FABRICATION NOTES:

Fabricate per IPC-6011 & IPC-6012 CLASS 2
Inspect per IPC-A-600 CLASS 2
Test per IPC-TM-650

*** PCB has 6 copper layers**
*** Copper thicknesses are finished and include base foil plus Cu plating on plated layers.**
*** PCB thickness: 63mil +/- 3mil**
*** Min. trace width/clearance: 0.1mm/0.1mm**
*** Min. hole drill/ring: 8mil/16mil**
*** Soldermask gang relief is allowed for pads in same footprint, if footprint is NSMD.**
*** Silkscreen, non-conductive epoxy ink, color: white**
*** Solder mask color: black**
*** Remove slikscreen as needed to prevent ink on any exposed copper**
*** Surface finish: ENIG**
*** Hole dimensions are finished size, +/-3mil**
*** Linear board dimension tolerance: +/-10mil**
*** Bow, twist, warp not to exceed 0.75% of greatest diagonal span**
*** PCB shall be UL Recognized printed wiring board (ZPMV2), minimum flammability rating 94V-0**
*** PCB shall be marked with fabricator company or trade name, UL mark, and date code using legend ink on secondary side**
*** All PCBs shall be electrically tested for opens and shorts per gerber. Test marking shall be marked on secondard side.**
*** GM1 layer should be used as board outline**

Fabricator shall panelize the PCB using mouse bites and tab routing. V-scoring not allowed.

Controlled impedance differential pairs shall be within +/-10% for 100ohm targets, and +/-10% for 90ohm targets. See Sheet 3 for transmission line details and location of 90ohm differential pairs.

Title: ***DM1097***	LUXonis
Number: D0000200 Revision: R1M1 E1	
Date: 04/05/2021 Sheet: 1 of 3	PROPRIETARY AND CONFIDENTIAL
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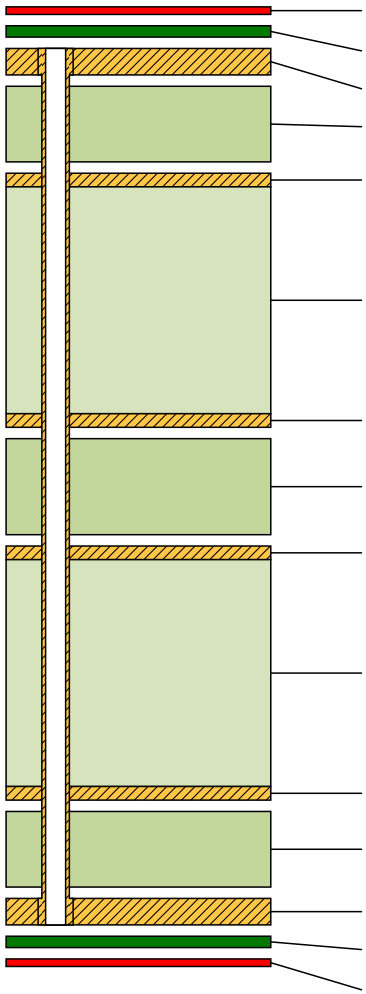
Layer Stack Legend



Layer	Thickness	Type	Gerber	Df	Dk
Top Overlay		Legend	GTO		
Top Mask	0.59mil(0.015mm)	Solder Mask	GTS		3,8
Top Copper	1.38mil(0.035mm)	Signal	GTL		
	3.94mil(0.100mm)	*Dielectric*			*4,05*
GND 1	0.71mil(0.018mm)	Signal	G1		
	22.24mil(0.565mm)	*Dielectric*			*4,5*
PWR	0.71mil(0.018mm)	Signal	G2		
	5.00mil(0.127mm)	*Dielectric*			*4,25*
Signal Layer 1	0.71mil(0.018mm)	Signal	G3		
	22.24mil(0.565mm)	*Dielectric*			*4,5*
GND 2	0.71mil(0.018mm)	Signal	G4		
	3.94mil(0.100mm)	*Dielectric*			*4,05*
Bottom Copper	1.38mil(0.035mm)	Signal	GBL		
Bottom Mask	0.59mil(0.015mm)	Solder Mask	GBS		3,8
Bottom Overlay		Legend	GBO		

Total thickness: 64.13mil(1.629mm)

Drill Table

Symbol	Count	Hole Size	Plated	Hole Tolerance
	25	7.87mil(0.200mm)	Plated	
	875	8.00mil(0.203mm)	Plated	
	24	10.00mil(0.254mm)	Plated	
	2	19.69mil(0.500mm)	Plated	
	2	21.65mil(0.550mm)	Plated	
	4	25.59mil(0.650mm)	Plated	
	33	27.56mil(0.700mm)	Plated	
	4	31.50mil(0.800mm)	Plated	
	2	31.89mil(0.810mm)	Non-Plated	
	2	33.86mil(0.860mm)	Plated	
	14	35.43mil(0.900mm)	Plated	
	4	40.16mil(1.020mm)	Plated	
	2	66.93mil(1.700mm)	Plated	
	2	78.74mil(2.000mm)	Non-Plated	
	4	90.55mil(2.300mm)	Plated	
	6	118.11mil(3.000mm)	Plated	
	2	125.98mil(3.200mm)	Plated	
	1007 Total			

Title: ***DM1097***	LUXonjs
Number: D0000200 Revision: R1M1 E1	
Date: 04/05/2021 Sheet: 2 of 3	PROPRIETARY AND CONFIDENTIAL
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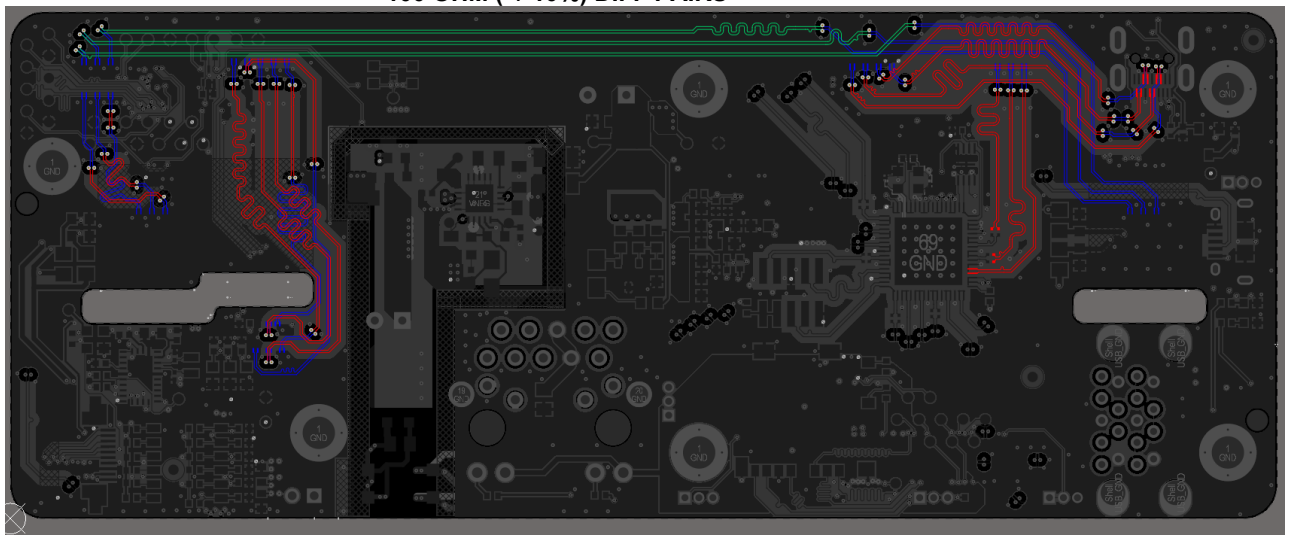
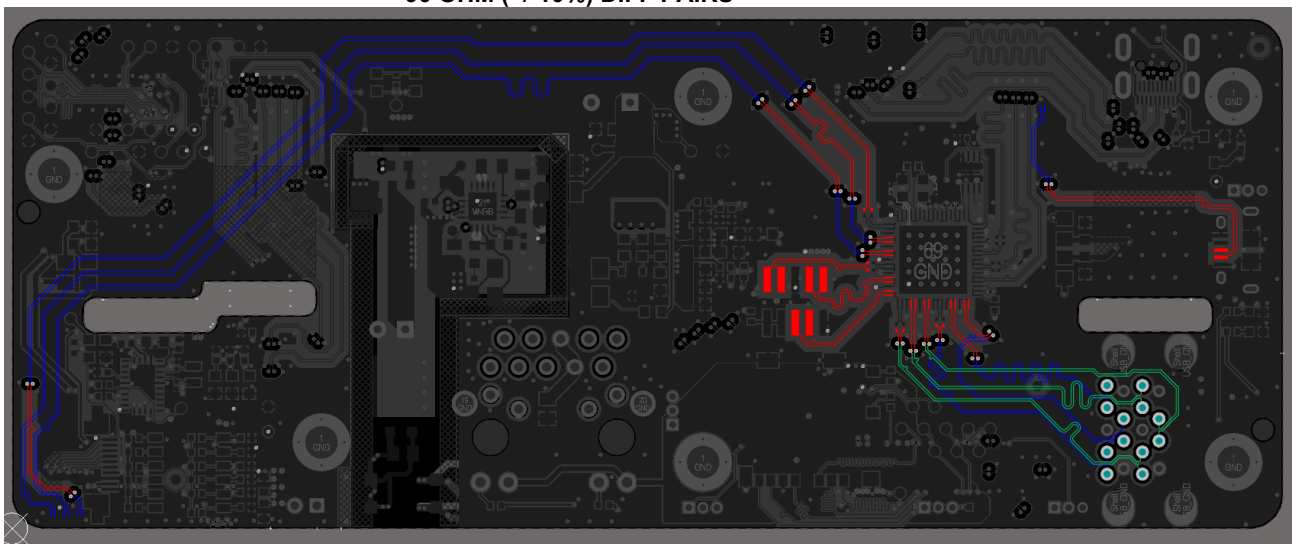
100 OHM (+/-10%) DIFF PAIRS



90 OHM (+/-10%) DIFF PAIRS



Transmission Line Structure Table

Impedance Id	Target Impedance	Trace layer	Lower Trace Width	Upper Trace Width	Gap	Reference layers
1	100	Top Copper	4.0mil(0.101mm)	4.0mil(0.101mm)	5.0mil(0.127mm)	GND 1
2	90	Top Copper	5.5mil(0.140mm)	5.5mil(0.140mm)	5.0mil(0.127mm)	GND 1
3	100	PWR	4.0mil(0.101mm)	4.0mil(0.101mm)	6.3mil(0.160mm)	GND 1,Signal Layer 1
4	90	PWR	4.0mil(0.102mm)	4.0mil(0.102mm)	4.1mil(0.104mm)	GND 1,Signal Layer 1
5	100	Signal Layer 1	4.0mil(0.101mm)	4.0mil(0.101mm)	6.3mil(0.160mm)	PWR,GND 2
6	90	Signal Layer 1	4.0mil(0.102mm)	4.0mil(0.102mm)	4.1mil(0.104mm)	PWR,GND 2
7	100	Bottom Copper	4.0mil(0.101mm)	4.0mil(0.101mm)	5.0mil(0.127mm)	GND 2
8	90	Bottom Copper	5.5mil(0.140mm)	5.5mil(0.140mm)	5.0mil(0.127mm)	GND 2

Title: ***DM1097***	LUXonjs
Number: D0000200 Revision: R1M1 E1	
Date: 04/05/2021 Sheet: 3 of 3	PROPRIETARY AND CONFIDENTIAL
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