

Main specifications

PCB Layers	4
Min trace width/clearance	4/4 mils
Min hole drill/ring	8/16 mils
Silkscreen colour	White
Solder mask colour	Black
Surface finish	ENIG

FABRICATION NOTES:

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

- \* Copper thicknesses are finished and include base foil plus Cu plating on plated layers.
- \* PCB thickness: Please refer to the Board layer stack legend
- \* Soldermask gang relief is allowed for pads in same footprint, if footprint is NSMD.
- \* Silkscreen, non-conductive epoxy ink
- \* Remove silkscreen as needed to prevent ink on any exposed copper
- \* 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 shall be used as a 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 See Sheet 3 for transmission line details and location of 100 ohm differential pairs.

**Layer Stack Legend**

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	Top Overlay			Legend	GTO
Surface Material	Top Mask	0.71mil(0.018mm)	SM-001	Solder Mask	GTS
CF-004	Top Layer	1.40mil(0.036mm)		Signal	GTL
Prepreg		7.09mil(0.180mm)	PP-021	Dielectric	
CF-004	Layer 2	1.40mil(0.036mm)		Signal	G1
Core		43.31mil(1.100mm)	Core-042	Dielectric	
CF-004	Layer 3	1.40mil(0.036mm)		Signal	G2
Prepreg		7.09mil(0.180mm)	PP-021	Dielectric	
CF-004	Bottom Layer	1.40mil(0.036mm)		Signal	GBL
Surface Material	Bottom Mask	0.71mil(0.018mm)	SM-001	Solder Mask	GBS
	Bottom Overlay			Legend	GBO
Total thickness: 64.50mil(1.638mm)					

**Drill Table**

Symbol	Count	Hole Size	Plated	Hole Tolerance
○	150	8.00mil(8.000mil)	Plated	
□	4	86.61mil(86.614mil)	Plated	
	154 Total			

Title: SL6996  
Number: D2088000 Revision: =rev  
Date: 29/05/2023 Sheet: 2 of 3  
Drawn by: Samo Laznik

LUXonjs  
PROPRIETARY AND CONFIDENTIAL  
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LUXONIS HOLDING CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION IS PROHIBITED.

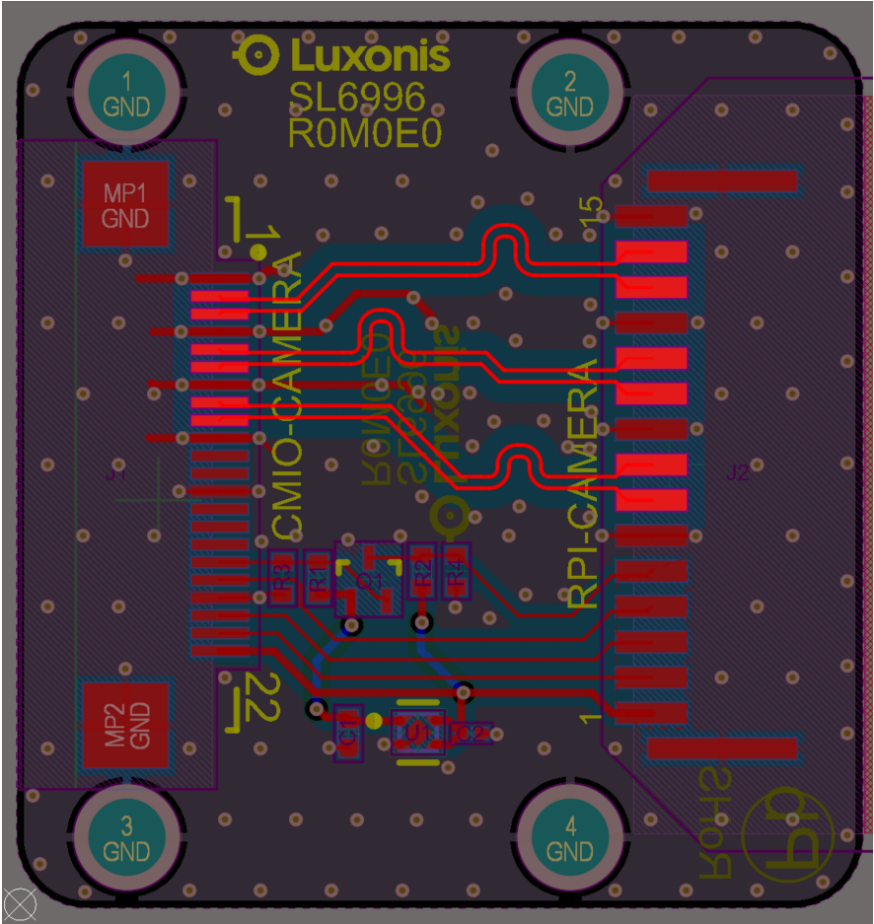
	A	B	C	D	E
	<b>Layer Stack Legend</b>				
	 Material	Layer	Thickness	Dielectric Material	Type Gerber
		Top Overlay			Legend GTO
	Surface Material	Top Mask	0.71mil(0.018mm)	SM-001	Solder Mask GTS
	CF-004	Top Layer	1.40mil(0.036mm)		Signal GTL
	Prepreg		7.09mil(0.180mm) PP-021 Dielectric		
	CF-004	Layer 2	1.40mil(0.036mm)		Signal G1
	Core		43.31mil(1.100mm) Core-042 Dielectric		
	CF-004	Layer 3	1.40mil(0.036mm)		Signal G2
	Prepreg		7.09mil(0.180mm) PP-021 Dielectric		
	CF-004	Bottom Layer	1.40mil(0.036mm)		Signal GBL
	Surface Material	Bottom Mask	0.71mil(0.018mm) SM-001 Solder Mask GBS		
		Bottom Overlay		Legend GBO	
	Total thickness: 64.50mil(1.638mm)				
<b>Drill Table</b>					
	Symbol	Count	Hole Size	Plated	Hole Tolerance
	○	150	8.00mil(8.000mil)	Plated	
	□	4	86.61mil(86.614mil)	Plated	
		154 Total			
	Title: SL6996 Number: D2088000 Revision: =rev Date: 29/05/2023 Sheet: 2 of 3 Drawn by: Samo Laznik				
	 PROPRIETARY AND CONFIDENTIAL <small>THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LUXONIS HOLDING CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION IS PROHIBITED.</small>				


[illegible][illegible]

Transmission Line Structure Table

Impedance Id	Target Impedance	Calculated Impedance	Trace layer	Lower Trace Width	Upper Trace Width	Gap	Reference layers
1	100	101.47	Top Layer	0.13mm(5.00mil)	0.11mm(4.17mil)	0.10mm(4.00mil)	Layer 2

100 OHM (+/-10%) DIFF PAIRS



Title: <b>SL6996</b>	
Number: D2088000 Revision: =rev	
Date: 29/05/2023 Sheet: 3 of 3	PROPRIETARY AND CONFIDENTIAL
Drawn by: Samo Laznik	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF LUXONIS HOLDING CORPORATION. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION IS PROHIBITED.