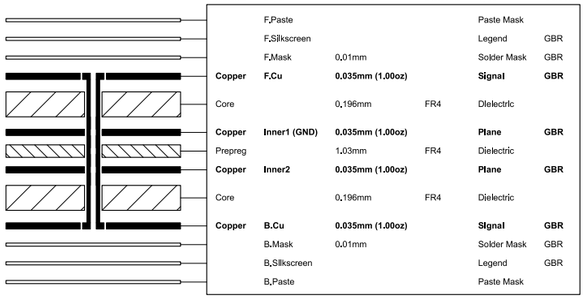
Mainboard Fabrication Document



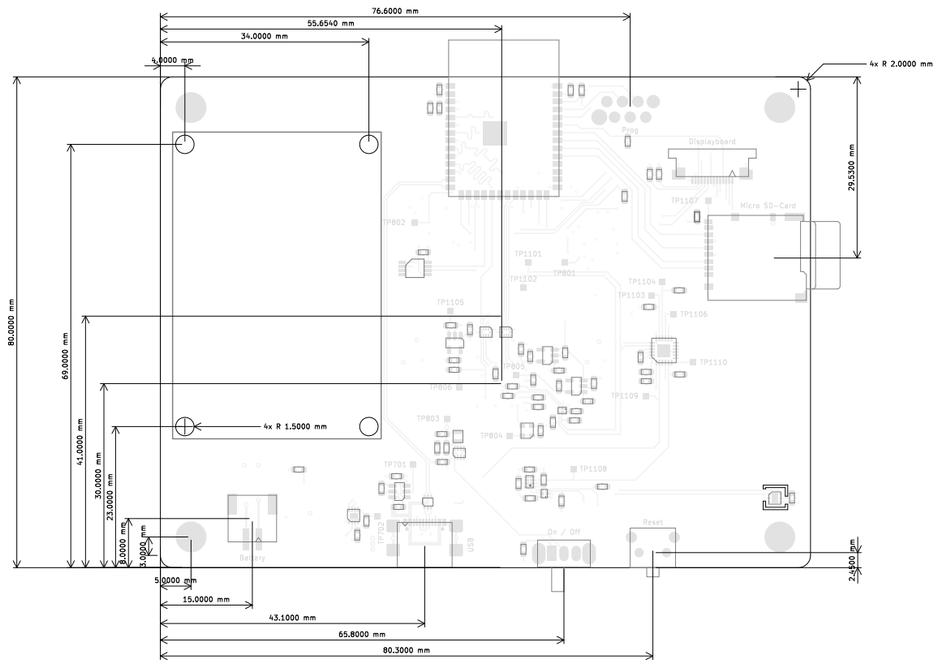
Material	Layer	Thickness	Dielectric	Type	Gerber
	F.Paste			Paste Mask	
	F.Silkscreen			Legend	GBR
	F.Mask	0.01mm		Solder Mask	GBR
Copper	**F.Cu**	**0.035mm (1.00oz)**		**Signal**	**GBR**
Core		0.196mm	FR4	Dielectric	
Copper	**Inner1 (GND)**	**0.035mm (1.00oz)**		**Plane**	**GBR**
Prepreg		1.03mm	FR4	Dielectric	
Copper	**Inner2**	**0.035mm (1.00oz)**		**Plane**	**GBR**
Core		0.196mm	FR4	Dielectric	
Copper	**B.Cu**	**0.035mm (1.00oz)**		**Signal**	**GBR**
	B.Mask	0.01mm		Solder Mask	GBR
	B.Silkscreen			Legend	GBR
	B.Paste			Paste Mask	

Total thickness: 1.582mm
Note: external layer thicknesses are specified after plating

Impedance Table

Transmission Line	Impedance [ohms]	Tolerance [%]	Layer	Trace Width [mm]	Gap [mm]	Ref. Layers

Top Fabrication (Scale 1:1)



FABRICATION NOTES (UNLESS OTHERWISE SPECIFIED)

1) FABRICATE PER IPC-6012A CLASS 2.
2) OUTLINE DEFINED IN SEPARATE GERBER FILE WITH "Edge_Cuts.GBR" SUFFIX.

   DIMENSIONS OF CIRCUMSIZED RECTANGLE SHOWN ON THIS DRAWING FOR REFERENCE ONLY.
3) SEE SEPARATE DRILL FILES WITH ".DRL" SUFFIX FOR HOLE LOCATIONS.

   SELECTED HOLE LOCATIONS SHOWN ON THIS DRAWING FOR REFERENCE ONLY.
4) SURFACE FINISH: HAL LEAD-FREE
5) SOLDERMASK ON BOTH SIDES OF THE BOARD SHALL BE LPI, COLOR WHITE.
6) SILK SCREEN LEGEND TO BE APPLIED PER LAYER STACKUP USING BLACK NON-CONDUCTIVE EPOXY INK.
7) ALL VIAS ARE TENTED ON BOTH SIDES UNLESS SOLDERMASK OPENED IN GERBER.
8) VENDOR SHOULD FOLLOW ROHS COMPLIANT PROCESS AND Pb FREE FOR MANUFACTURING
9) PCB MATERIAL REQUIREMENTS:
   A. FLAMMABILITY RATING MUST MEET OR EXCEED UL94V-0 REQUIREMENTS.
   B. Tg 150 C OR EQUIVALENT.
   C. EQUIVALENT MATERIAL SHALL BE RoHS COMPLIANT, HALOGEN FREE AND APPROVED BY PYROVISION.
10) DESIGN GEOMETRY MINIMUM FEATURE SIZES:

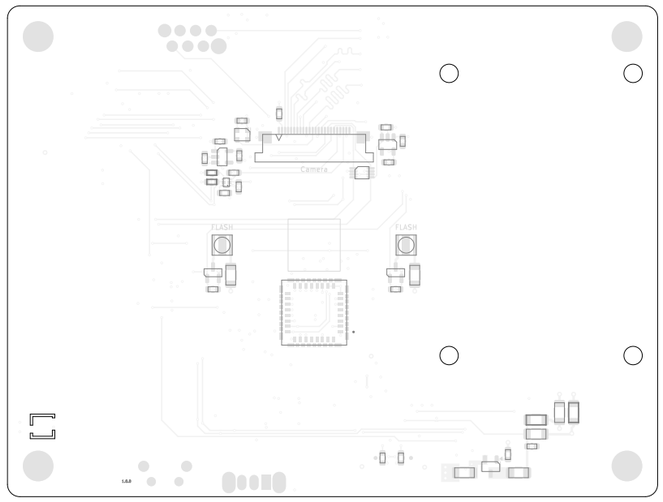
BOARD SIZE	106.000 × 80.000 mm
BOARD THICKNESS	1.582 mm
TRACE WIDTH	0.200 mm
TRACE TO TRACE	-0.000 mm
MIN. HOLE (PTH)	0.250 mm
MIN. HOLE (NPTH)	0.650 mm
ANNULAR RING	0.100 mm
COPPER TO HOLE	0.125 mm
COPPER TO EDGE	0.125 mm
HOLE TO HOLE	0.250 mm

All dimensions are in millimeters unless otherwise specified.

Comments: PyroVision	Company: **PyroVision**		Variant: RELEASED	Git Hash: d4e0f44
	Board Name: **Mainboard**		Project Name: **PyroVision**	
Sheet Title: Top Fabrication (Scale 1:1)	File Name: Mainboard.kicad_pcb	Designer: Daniel Kampert	Date: 2025-05-12	Revision: 1.0.0
Sheet Path:		Reviewer:	Size: **A3**	Sheet: **1** of **10**

Mainboard Fabrication Document

Bottom Fabrication (Scale 1:1)

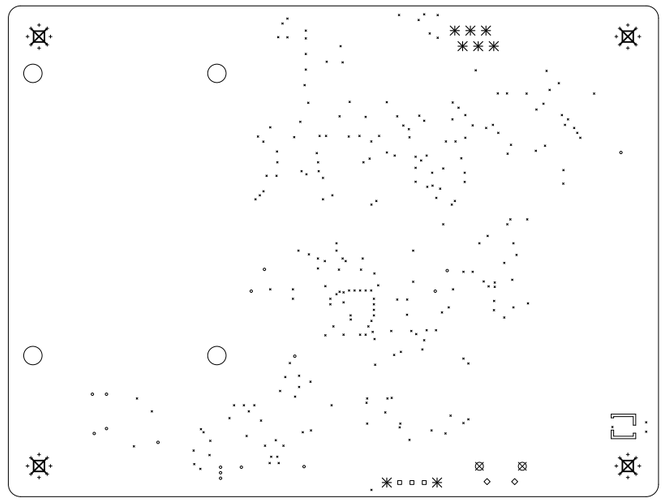


Comments: PyroVision	Company: **PyroVision**		Variant: RELEASED	Git Hash: d4e0f44
	Board Name: **Mainboard**		Project Name: **PyroVision**	
Sheet Title: Bottom Fabrication (Scale 1:1)	File Name: Mainboard.kicad_pcb	Designer: Daniel Kampert	Date: 2025-05-12	Revision: 1.0.0
Sheet Path:		Reviewer:	Size: A3	Sheet: 2 of 10

All dimensions are in millimeters unless otherwise specified.

Mainboard Fabrication Document

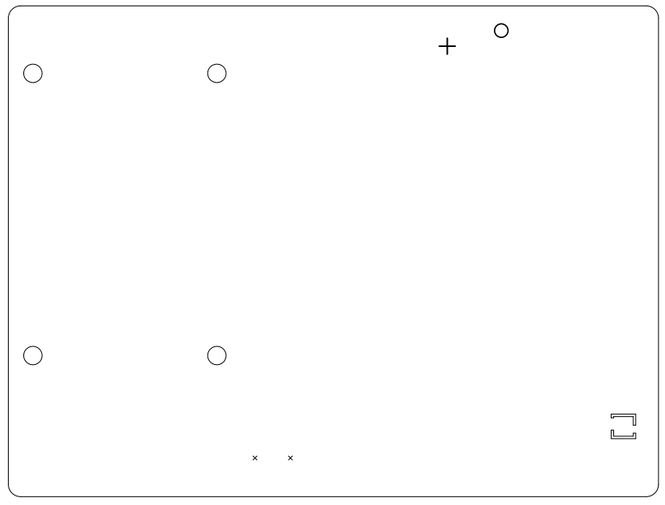
Drill Drawing L1 - L4 (Scale 1:1)



Comments: PyroVision	Company: **PyroVision**		Variant: RELEASED	Git Hash: d4e0f44
	Board Name: **Mainboard**		Project Name: **PyroVision**	
Sheet Title: Drill Drawing (L1 - L4)	File Name: Mainboard.kicad_pcb	Designer: Daniel Kampert	Date: 2025-05-12	Revision: 1.0.0
Sheet Path:		Reviewer:	Size: **A3**	Sheet: **3** of **10**

Mainboard Fabrication Document

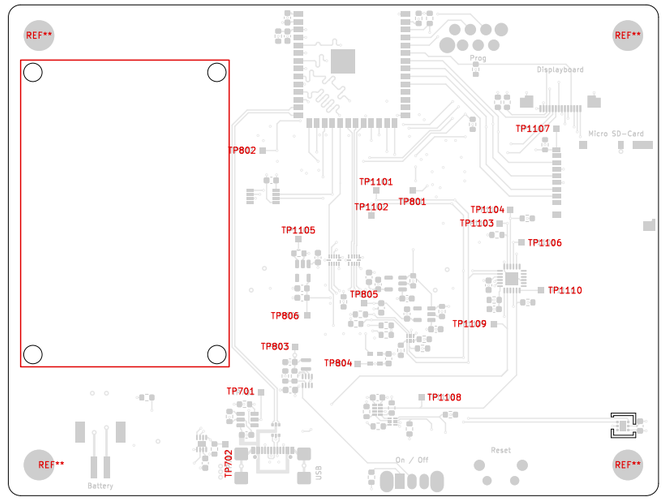
Drill Drawing L1 - L4 (Scale 1:1)



	Comments: PyroVision	Company: **PyroVision**	Variant: RELEASED	Git Hash: d4e0f44
		Board Name: **Mainboard**	Project Name: **PyroVision**	
	Sheet Title: Drill Drawing (L1 - L4)	File Name: Mainboard.kicad_pcb	Designer: Daniel Kampert	Date: 2025-05-12 / Revision: 1.0.0
	Sheet Path:		Reviewer:	Size: **A3** / Sheet: **4** of **10**

Mainboard Fabrication Document

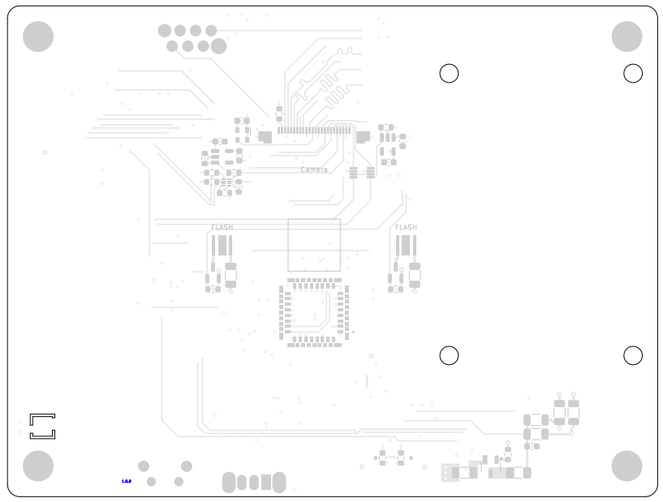
Top Test Points (Scale 1:1)



Comments: PyroVision	Company: **PyroVision**		Variant: RELEASED	Git Hash: d4e0f44
	Board Name: **Mainboard**		Project Name: **PyroVision**	
Sheet Title: Top Test Points (Scale 1:1)	File Name: Mainboard.kicad_pcb	Designer: Daniel Kampert	Date: 2025-05-12	Revision: 1.0.0
Sheet Path:		Reviewer:	Size: **A3**	Sheet: **5** of **10**

Mainboard Fabrication Document

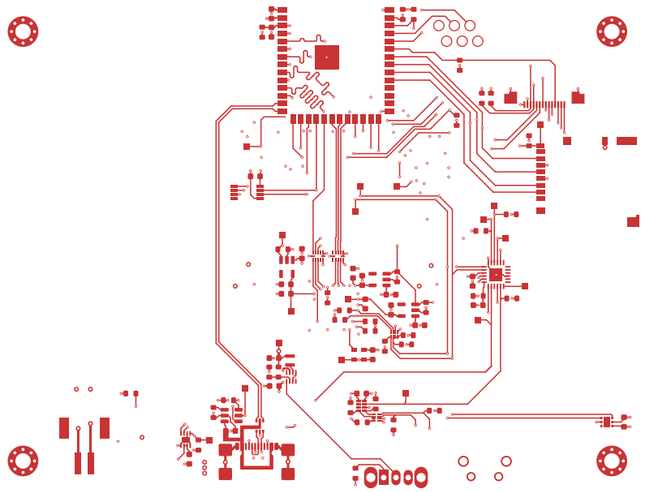
Bottom Test Points (Scale 1:1)



Comments: PyroVision	Company: **PyroVision**		Variant: RELEASED	Git Hash: d4e0f44
	Board Name: **Mainboard**		Project Name: **PyroVision**	
Sheet Title: Bottom Test Points (Scale 1:1)	File Name: Mainboard.kicad_pcb	Designer: Daniel Kampert	Date: 2025-05-12	Revision: 1.0.0
Sheet Path:		Reviewer:	Size: **A3**	Sheet: **6** of **10**

Mainboard Fabrication Document

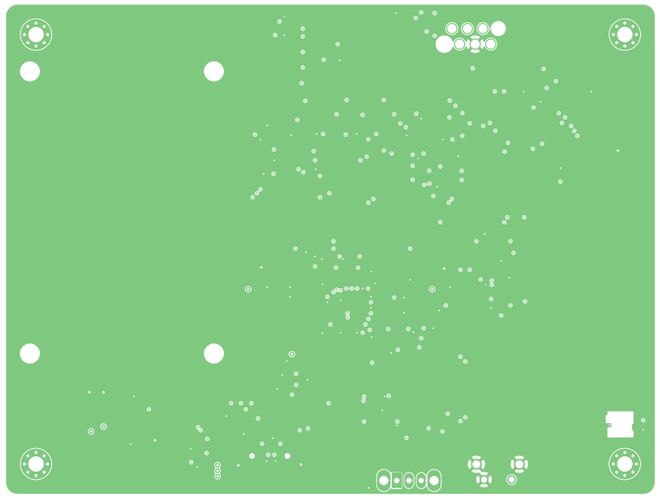
F.Cu (Scale 1:1)



Comments: PyroVision	Company: **PyroVision**		Variant: RELEASED	Git Hash: d4e0f44
	Board Name: **Mainboard**		Project Name: **PyroVision**	
Sheet Title: F.Cu (Scale 1:1)	File Name: Mainboard.kicad_pcb	Designer: Daniel Kampert	Date: 2025-05-12	Revision: 1.0.0
Sheet Path:		Reviewer:	Size: **A3**	Sheet: **7** of **10**

Mainboard Fabrication Document

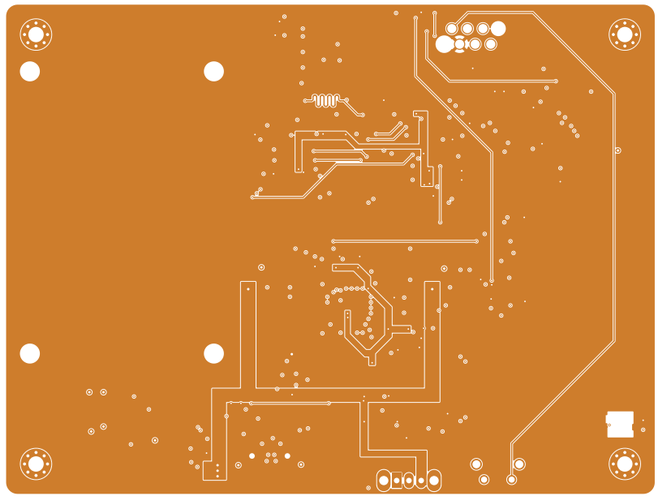
Inner1 (GND) (Scale 1:1)



Comments: PyroVision	Company: **PyroVision**		Variant: RELEASED	Git Hash: d4e0f44
	Board Name: **Mainboard**		Project Name: **PyroVision**	
Sheet Title: Inner1 (GND) (Scale 1:1)	File Name: Mainboard.kicad_pcb	Designer: Daniel Kampert	Date: 2025-05-12	Revision: 1.0.0
Sheet Path:		Reviewer:	Size: **A3**	Sheet: **8** of **10**

Mainboard Fabrication Document

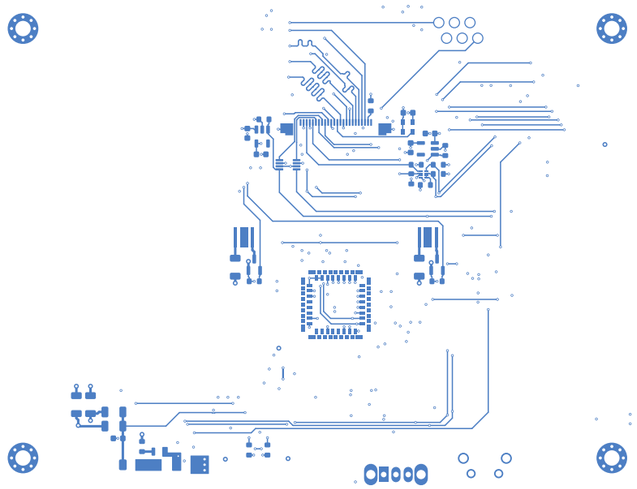
Inner2 (Scale 1:1)



Comments: PyroVision	Company: **PyroVision**		Variant: RELEASED	Git Hash: d4e0f44	
	Board Name: **Mainboard**		Project Name: **PyroVision**		
Sheet Title: Inner2 (Scale 1:1)	File Name: Mainboard.kicad_pcb	Designer: Daniel Kampert	Date: 2025-05-12	Revision: 1.0.0	
Sheet Path:		Reviewer:	Size: **A3**	Sheet: **9** of **10**	

Mainboard Fabrication Document

B.Cu (Scale 1:1)



Comments: PyroVision	Company: **PyroVision**		Variant: RELEASED	Git Hash: d4e0f44
	Board Name: **Mainboard**		Project Name: **PyroVision**	
Sheet Title: B.Cu (Scale 1:1)	File Name: Mainboard.kicad_pcb	Designer: Daniel Kampert	Date: 2025-05-12	Revision: 1.0.0
	Sheet Path:	Reviewer:	Size: **A3**	Sheet: **10** of **10**