

Top Fabrication (Scale 1:1)

Layer Stack Legend

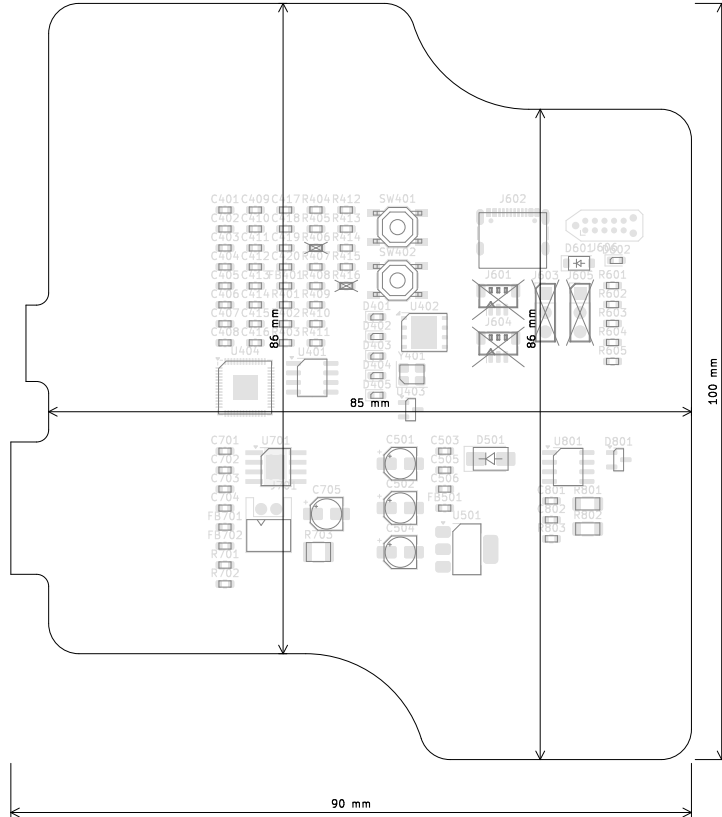
Stackup: JLC04121H-7628

Material	Layer	Thickness	Dielectric	Type	Gerber
F.Paste				Paste Mask	
F.Silkscreen				Legend	GBR
F.Mask		0.01mm		Solder Mask	GBR
Copper	L1 (Sig.)	0.035mm (1oz)		Signal	GBR
Prepreg		0.09mm	FR4	Dielectric	
Copper	L2 (GND)	0.015mm (0.42857142857142855oz)		Plane	GBR
Core		0.86mm	FR4	Dielectric	
Copper	L3 (PWR)	0.015mm (0.42857142857142855oz)		Plane	GBR
Prepreg		0.09mm	FR4	Dielectric	
Copper	L4 (Sig.)	0.035mm (1oz)		Signal	GBR
B.Mask		0.01mm		Solder Mask	GBR
B.Silkscreen				Legend	GBR
B.Paste				Paste Mask	

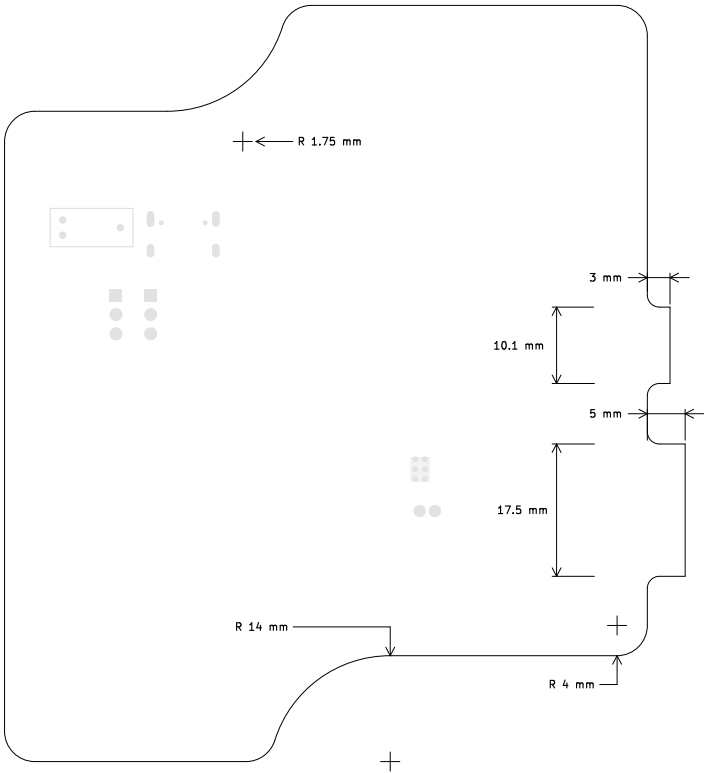
Total thickness: 1.16mm
Note: external layer thicknesses are specified after plating

Impedance Table


Transmission Line	Impedance [ohms]	Tolerance [ohms]	Layer	Trace Width [mm]	Gap [mm]	Ref. Layers
USB	90	±10 %	L1	0.17	0.275	L2



Bottom Fabrication (Scale 1:1)



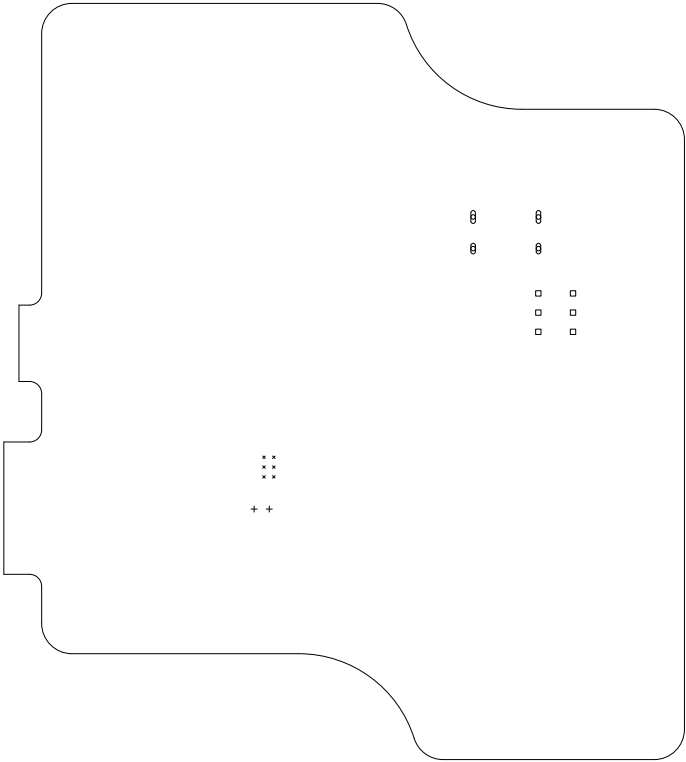
All dimensions are in millimeters unless otherwise specified.

Designed for: TrendBit Designed by: Petr_Malaník					
Sheet: File: pump_board.kicad_pcb				Project: SMPBR	
Title:				Board: Pump_board	
Size: A4		Date: 2024-12-04		GIT hash:	
KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5				Rev: 1.0	
Id: 2/10					

Drill Drawing L1 - L4 (Scale 1:1)

Drill Table

Symbol	Count	Hole Size	Plated	Hole Shape	Drill Layer Pair	Hole Type
×	6	0,33mm (12,99mils)	PTH	Round	L1 (Sig) - L4 (Sig.)	Pad
○	4	0,60mm (23,62mils)	PTH	Slot	L1 (Sig) - L4 (Sig.)	Pad
+	2	0,80mm (31,50mils)	PTH	Round	L1 (Sig) - L4 (Sig.)	Pad
□	6	1,00mm (39,37mils)	PTH	Round	L1 (Sig) - L4 (Sig.)	Pad
Total 18						



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Designed by: Petr_Malaník

Sheet:
File: pump_board.kicad_pcb

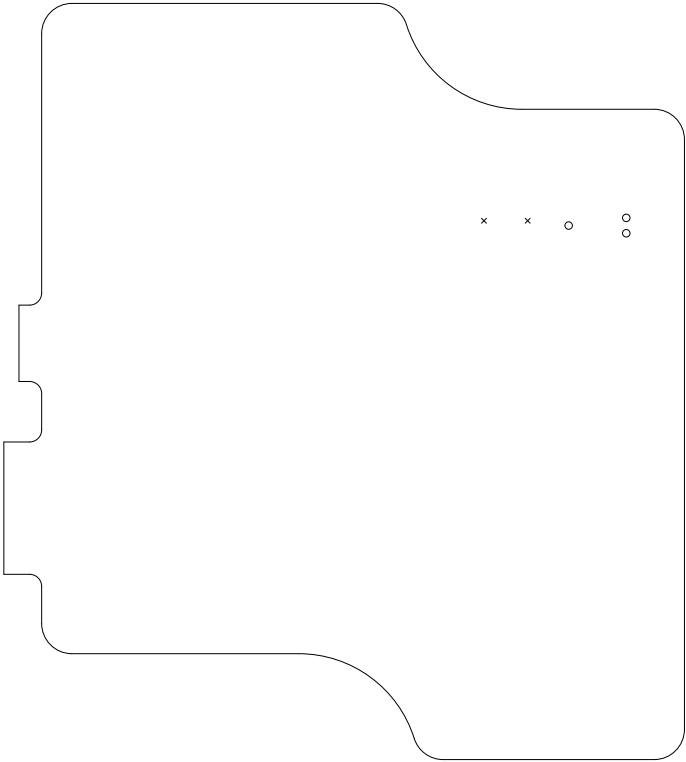
Project: SMPBR
Board: Pump_board

Title:	Size: A4	Date: 2024-12-04	GIT hash:	Rev: 1.0
	KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5			Id: 3/10

Drill Drawing L1 - L4 (Scale 1:1)

Drill Table

Symbol	Count	Hole Size	Plated	Hole Shape	Drill Layer Pair	Hole Type
×	2	0,65mm (25,59mils)	NPTH	Round	L1 (Sig) - L4 (Sig.)	Mechanical
○	3	0,99mm (39,00mils)	NPTH	Round	L1 (Sig) - L4 (Sig.)	Mechanical
Total 5						



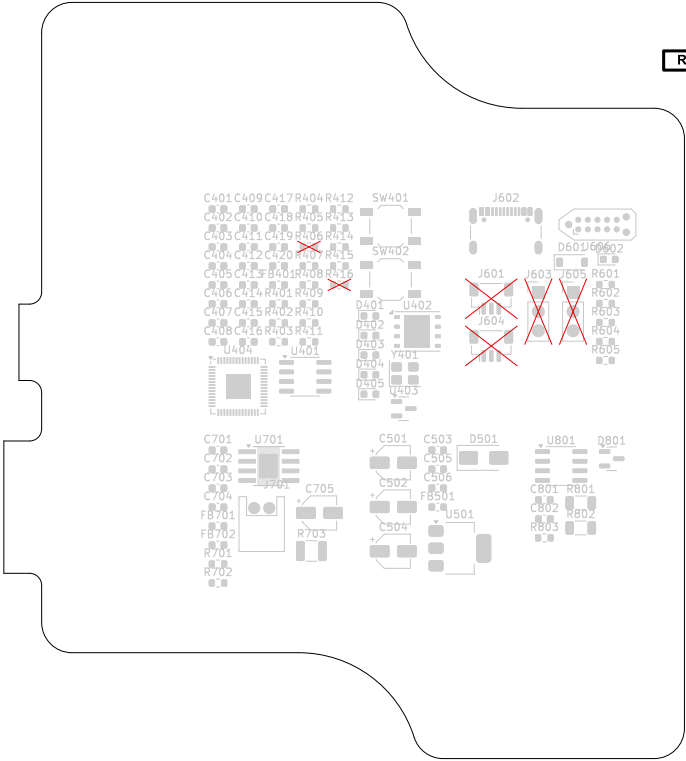
Designed for: TrendBit
Designed by: Petr_Malaník

Sheet:
File: pump_board.kicad_pcb

Project: SMPBR
Board: Pump_board

Title:		Date: 2024-12-04		GIT hash:		Rev: 1.0	
Size: A4		KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5				Id: 4/10	

Top Test Points (Scale 1:1)



Ref.	Net	X [mm]	Y [mm]
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Ref.	Net	X [mm]	Y [mm]
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All dimensions are in millimeters unless otherwise specified.



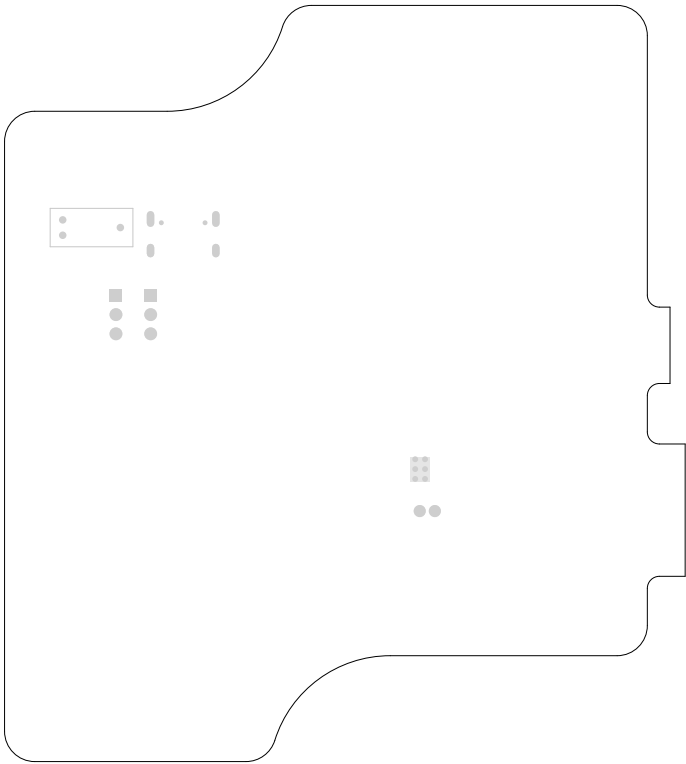
Designed for: TrendBit
Designed by: Petr_Malaník

Sheet:
File: pump_board.kicad_pcb

Project: SMPBR
Board: Pump_board

Title:	Date: 2024-12-04	GIT hash:	Rev: 1.0
KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5			Id: 5/10

Bottom Test Points (Scale 1:1)



Ref.	Net	X [mm]	Y [mm]
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All dimensions are in millimeters unless otherwise specified.

Designed for: TrendBit

Designed by: Petr_Malaník

Sheet:

File: pump_board.kicad_pcb

Title:

Size: A4

Date: 2024-12-04

KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5


GIT hash:

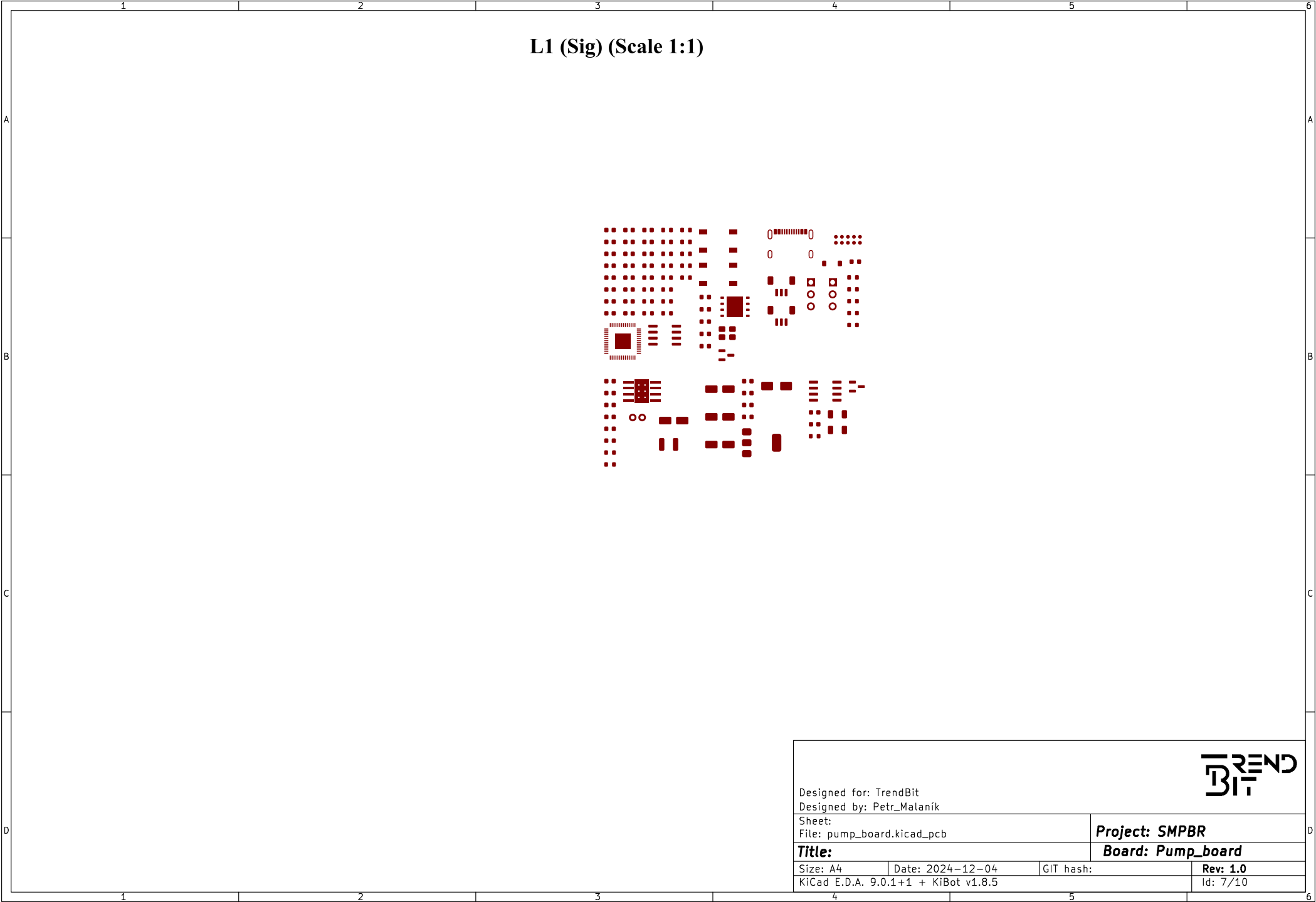
Id: 6/10


Project: SMPBR

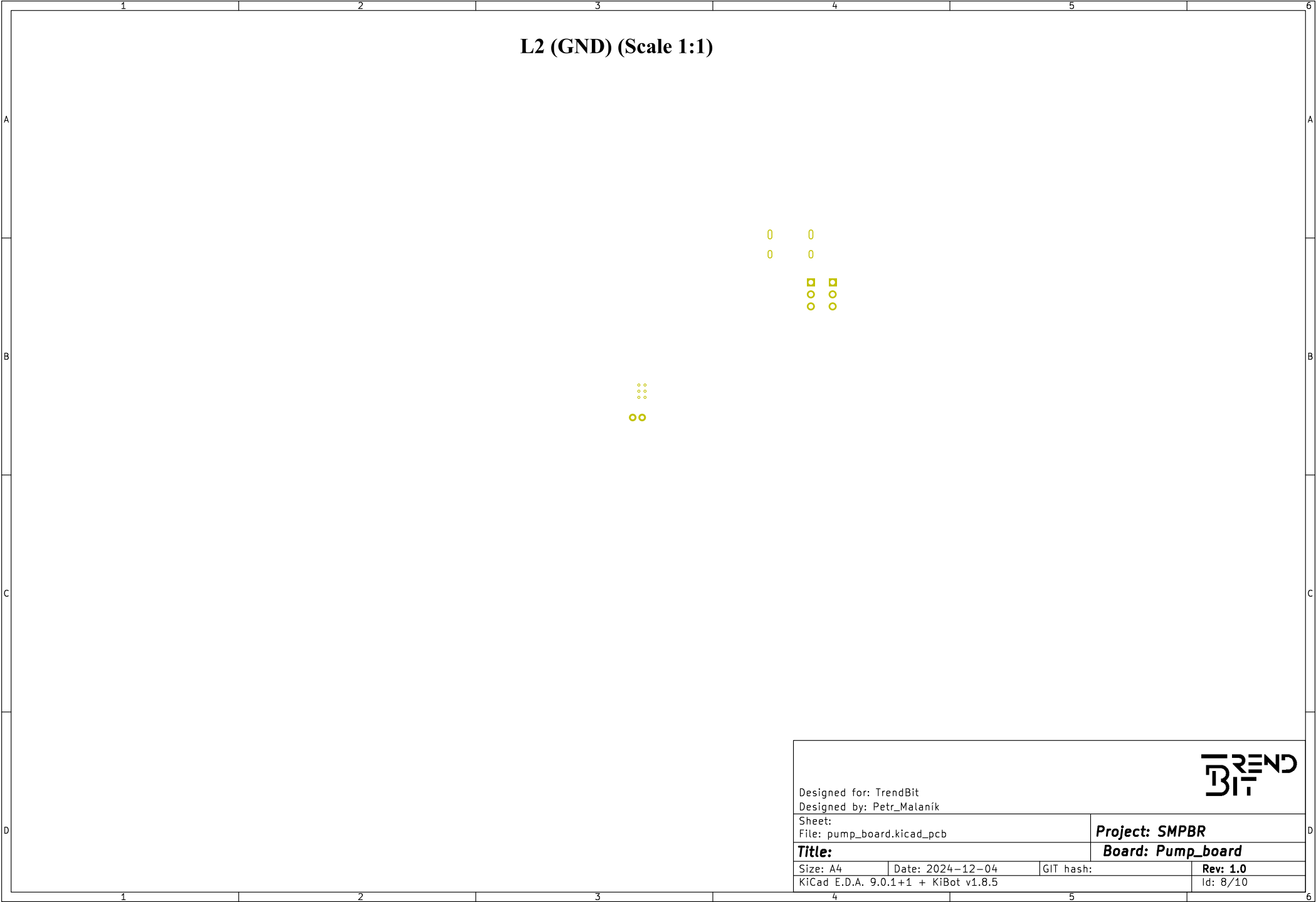
Board: Pump_board

Rev: 1.0

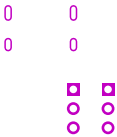




					
Designed for: TrendBit					
Designed by: Petr_Malanik					
Sheet:				Project: SMPBR	
File: pump_board.kicad_pcb					
Title:				Board: Pump_board	
Size: A4		Date: 2024-12-04		GIT hash:	
KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5				Rev: 1.0	
				Id: 7/10	



L3 (PWR) (Scale 1:1)



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Designed by: Petr_Malaník



Sheet:
File: pump_board.kicad_pcb

Project: SMPBR
Board: Pump_board

Title:
Size: A4
KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5

GIT hash:

Rev: 1.0
Id: 9/10

[illegible]