














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	

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

BOARD SIZE	90.000 x 101.250 mm
BOARD THICKNESS	1.160 mm
TRACE WIDTH	0.170 mm
TRACE TO TRACE	-0.000 mm
MIN. HOLE (PTH)	0.300 mm
MIN. HOLE (NPTH)	0.650 mm
ANNULAR RING	0.075 mm
COPPER TO HOLE	0.150 mm
COPPER TO EDGE	0.300 mm
HOLE TO HOLE	0.250 mm

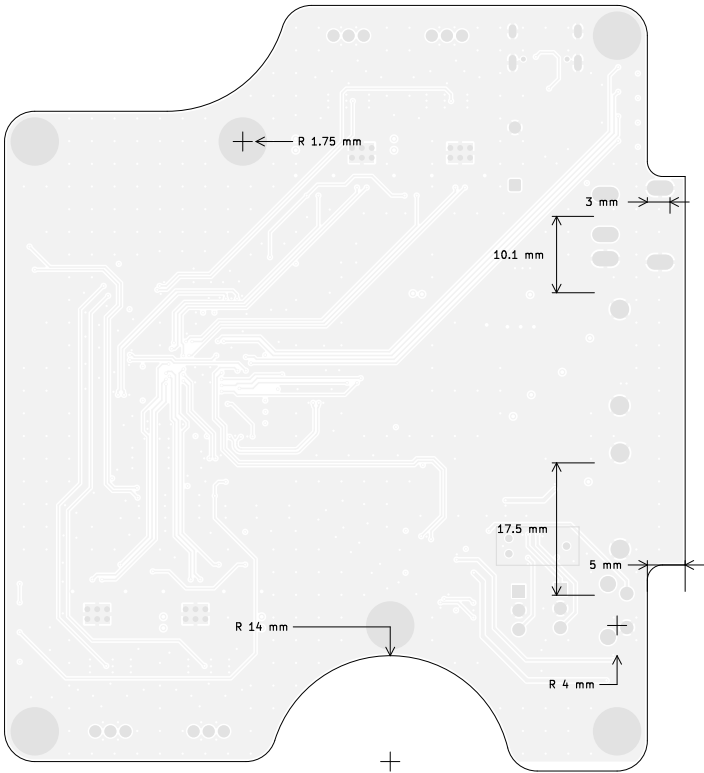
12) CONFIRM SPACE WIDTHS AND SPACINGS.

All dimensions are in millimeters unless otherwise specified.


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Id: 1/10

Bottom Fabrication (Scale 1:1)



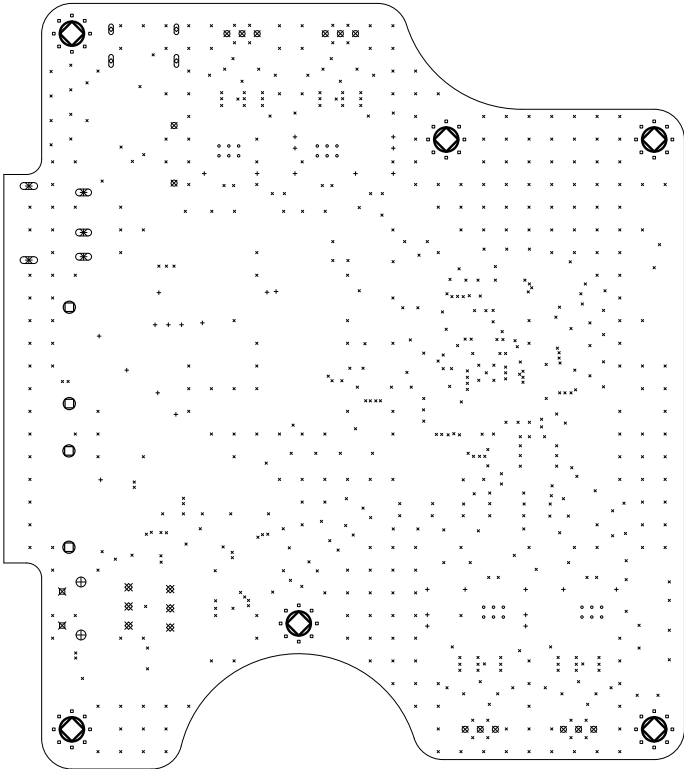
All dimensions are in millimeters unless otherwise specified.

<div>Designed for: TrendBit</div> <div>Designed by: Petr_Malaník</div> <div>Sheet:</div> <div>File: pump_board.kicad_pcb</div> <div>Title:</div>				<div></div> <div>Project: SMPBR</div> <div>Board: Pump_board</div>			
Size: A4		Date: 2024-12-04		GIT hash: f0cdaa3		Rev: 1.0	
KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5						Id: 2/10	

Drill Drawing L1 - L4 (Scale 1:1)

Drill Table

Symbol	Count	Hole Size	Plated	Hole Shape	Drill Layer Pair	Hole Type
×	669	0,30mm (11,81mils)	PTH	Round	L1 (Sig.) - L4 (Sig.)	Via
○	24	0,33mm (12,99mils)	PTH	Round	L1 (Sig.) - L4 (Sig.)	Pad
+	30	0,50mm (19,69mils)	PTH	Round	L1 (Sig.) - L4 (Sig.)	Via
□	48	0,50mm (19,69mils)	PTH	Round	L1 (Sig.) - L4 (Sig.)	Pad
◇	4	0,60mm (23,62mils)	PTH	Slot	L1 (Sig.) - L4 (Sig.)	Pad
⊗	14	0,80mm (31,50mils)	PTH	Round	L1 (Sig.) - L4 (Sig.)	Pad
✱	5	0,90mm (35,43mils)	PTH	Slot	L1 (Sig.) - L4 (Sig.)	Pad
⊠	2	0,99mm (38,98mils)	PTH	Round	L1 (Sig.) - L4 (Sig.)	Pad
⊗	6	1,00mm (39,37mils)	PTH	Round	L1 (Sig.) - L4 (Sig.)	Pad
⊕	2	1,30mm (51,18mils)	PTH	Round	L1 (Sig.) - L4 (Sig.)	Pad
○	4	1,60mm (62,99mils)	PTH	Round	L1 (Sig.) - L4 (Sig.)	Pad
○	6	3,20mm (125,98mils)	PTH	Round	L1 (Sig.) - L4 (Sig.)	Pad
Total 814						



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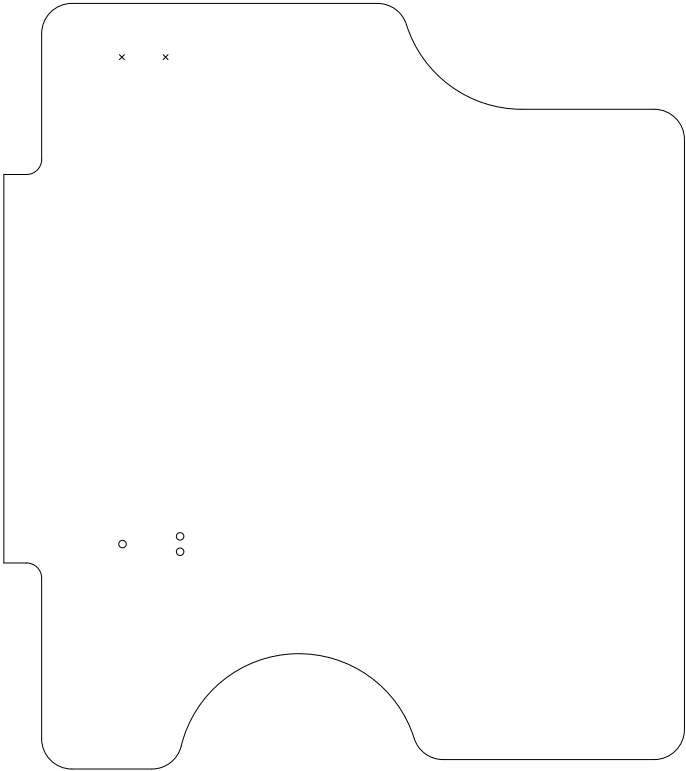
Project: SMPBR
Board: Pump_board

Title:
Size: A4 Date: 2024-12-04 GIT hash: f0cdaa3 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					



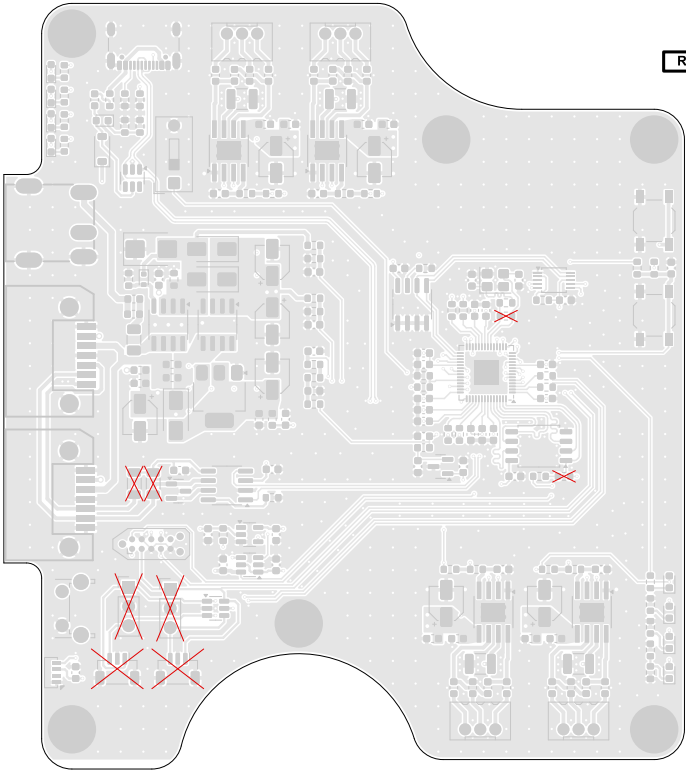
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Sheet:
File: pump_board.kicad_pcb

Project: SMPBR
Board: Pump_board

Title:	
Size: A4	Date: 2024-12-04
KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5	Git hash: f0cdaa3
	Rev: 1.0
	Id: 4/10


Top Test Points (Scale 1:1)



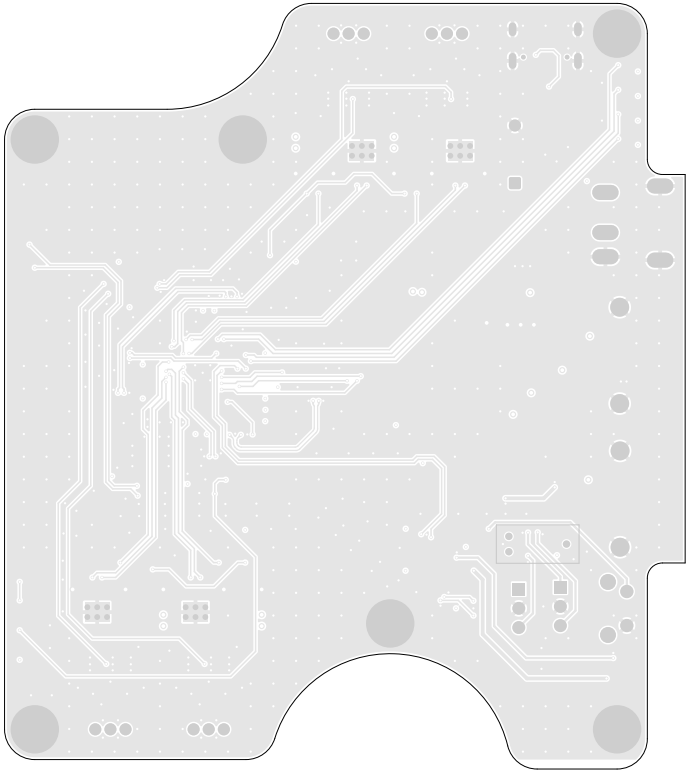
Ref.	Net	X [mm]	Y [mm]
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Ref.	Net	X [mm]	Y [mm]
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Title:			Board: Pump_board	
Size: A4	Date: 2024-12-04	GIT hash: f0cdaa3		Rev: 1.0
KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5			Id: 5/10	

Bottom Test Points (Scale 1:1)



Ref.	Net	X [mm]	Y [mm]
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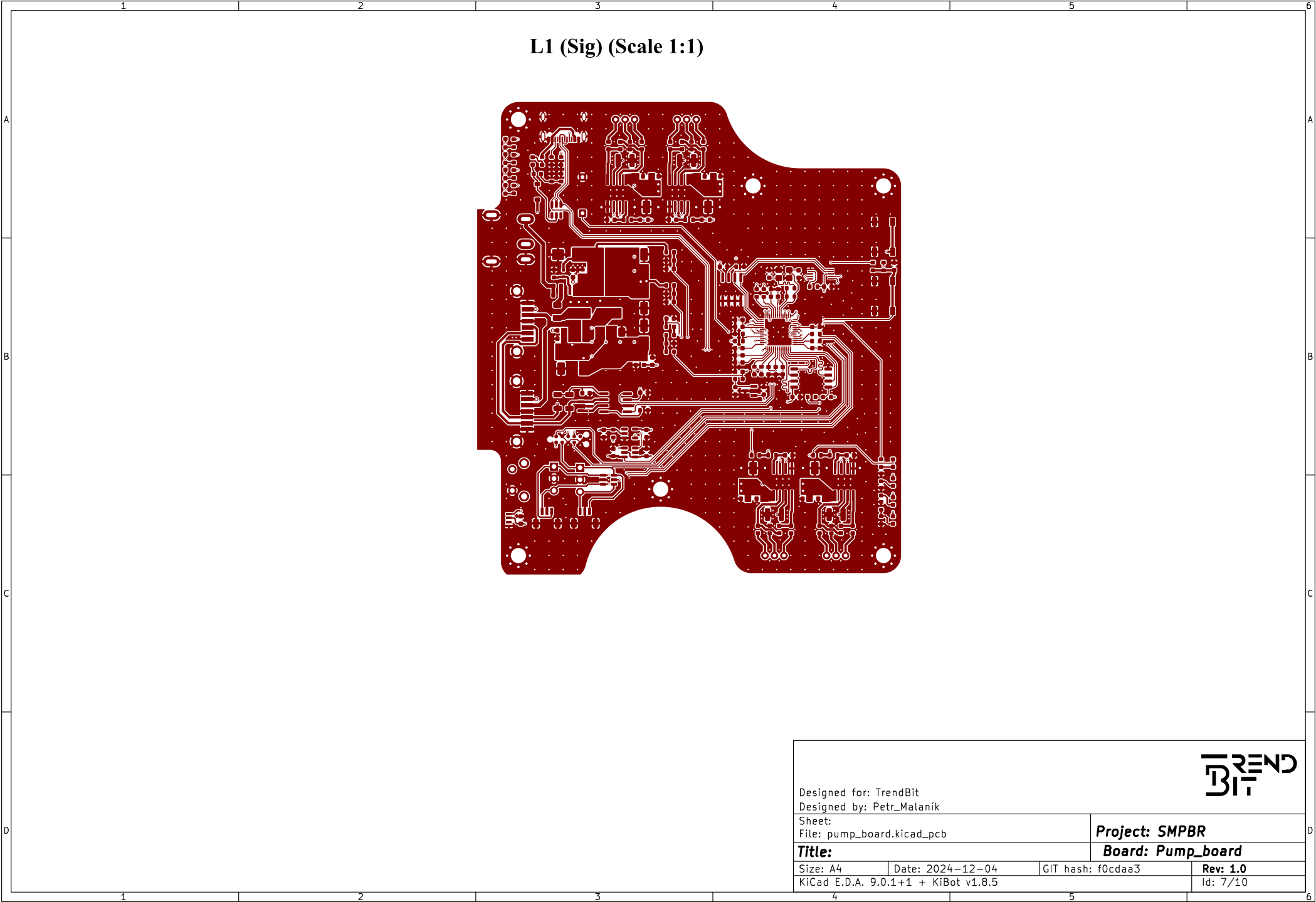
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File: pump_board.kicad_pcb

Project: SMPBR
Board: Pump_board

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

Date: 2024-12-04
GIT hash: f0cdaa3

Rev: 1.0
Id: 6/10



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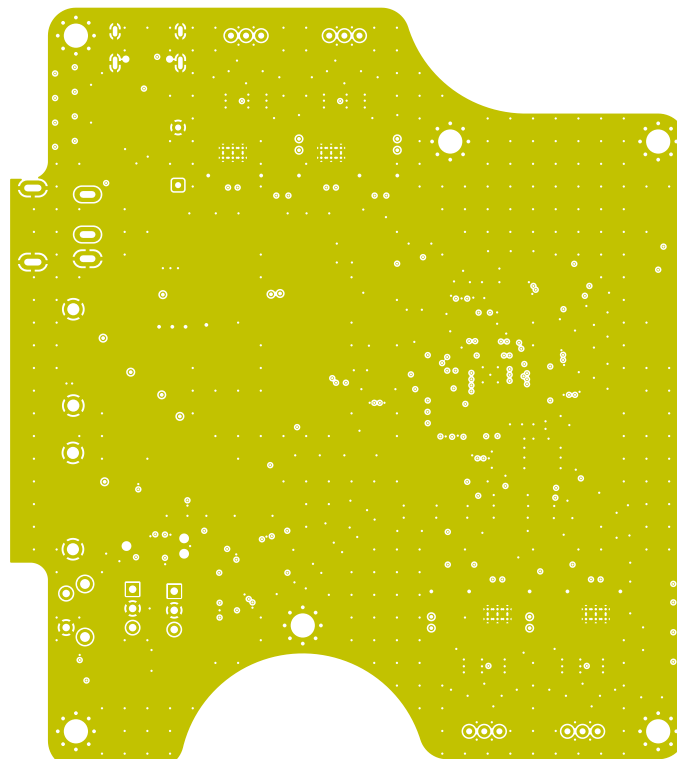
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File: pump_board.kicad_pcb

Project: SMPBR
Board: Pump_board

Title:	Size: A4	Date: 2024-12-04	GIT hash: f0cdaa3	Rev: 1.0
	KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5			Id: 7/10



L2 (GND) (Scale 1:1)



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Title:

Project: SMPBR

Board: Pump_board

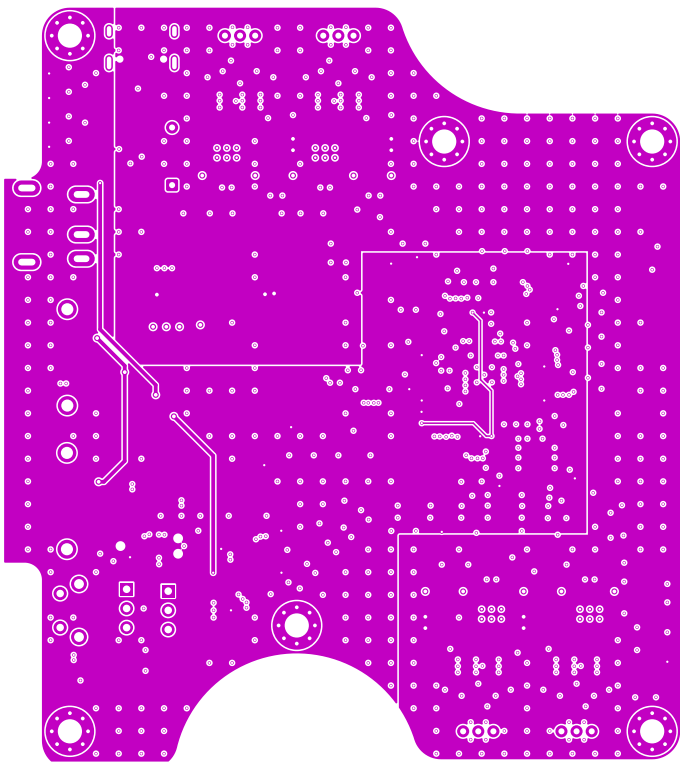
Size: A4
KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5

Date: 2024-12-04
GIT hash: f0cdaa3

Rev: 1.0
Id: 8/10

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L3 (PWR) (Scale 1:1)



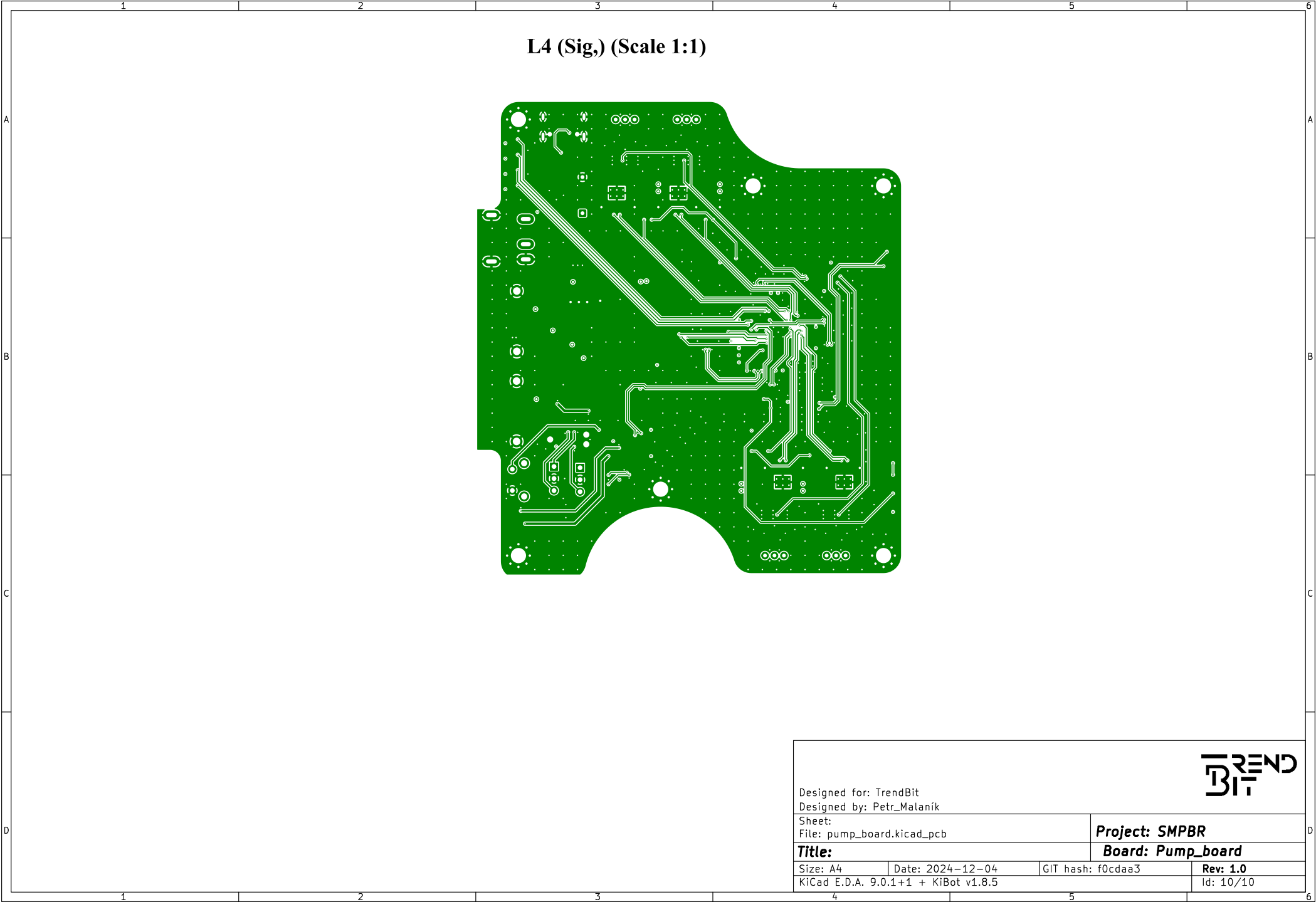
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Project: SMPBR
Board: Pump_board

Size: A4	Date: 2024-12-04	GIT hash: f0cdaa3	Rev: 1.0
KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5			Id: 9/10





				
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Size: A4	Date: 2024-12-04	GIT hash: f0cdaa3		Rev: 1.0
KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5				Id: 10/10