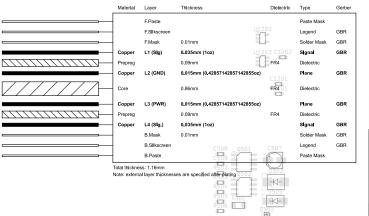
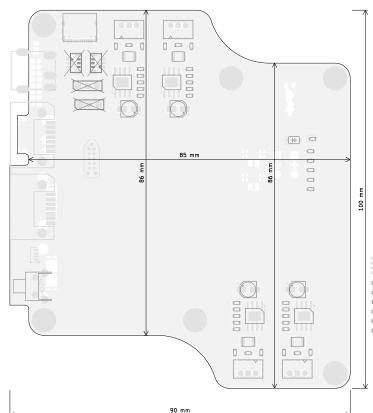


Layer Stack Legend Stackup: JLC04121H-7628



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



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: ENIG
- 5) SOLDERMASK ON BOTH SIDES OF THE BOARD SHALL BE LPI, COLOR GREEN.
- 6) SILK SCREEN LEGEND TO BE APPLIED PER LAYER STACKUP USING WHITE NON-CONDUCTIVE EPOXY INK.
- 7) ALL WAS 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 170 C OR EQUIVALENT.
- C. EQUIVALENT MATERIAL SHALL BE ROHS COMPLIANT, HALOGEN FREE AND APPROVED BY TRENDBIT.

10) DESIGN GEOMETRY MINIMUM FEATURE SIZES:

BOARD SIZE 90.000 × 100.000 mm BOARD THICKNESS 1.160 mm TRACE WIDTH N/A mm TRACE TO TRACE 0.100 mm

MIN. HOLE (PTH) 0.350 mm MIN. HOLE (NPTH) 0.650 mm 0.140 mm ANNULAR RING 0.150 mm COPPER TO HOLE COPPER TO EDGE 0.300 mm

0.250 mm HOLE TO HOLE

- 11) REFER TO IMPEDANCE TABLE FOR IMPEDANCE CONTROL REQUIREMENTS.
- 12) CONFIRM SPACE WIDTHS AND SPACINGS.

All dimensions are in millimeters unless otherwise specified.

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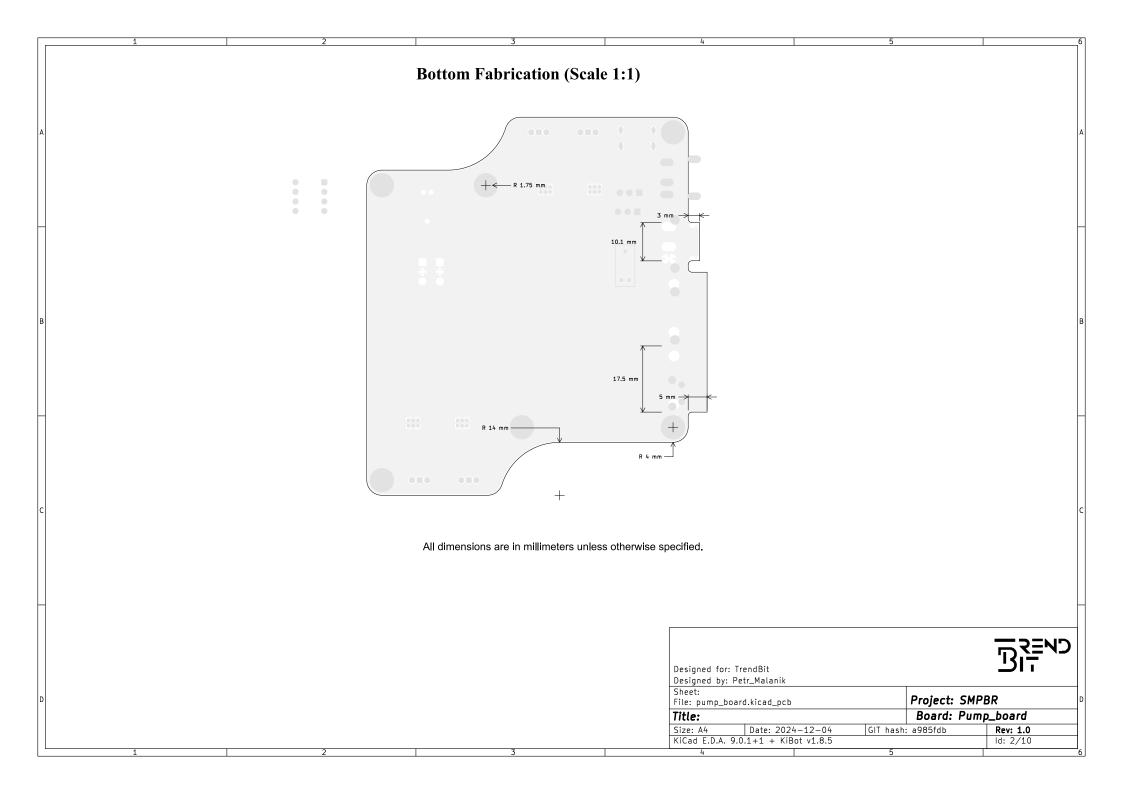
> Designed for: TrendBit Designed by: Petr_Malaník

Sheet:

Title:

Project: SMPBR File: pump_board.kicad_pcb Board: Pump_board

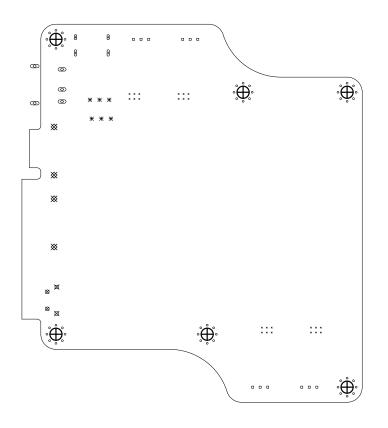
Size: A4 Date: 2024-12-04 GIT hash: a985fdb Rev: 1.0 KiCad E.D.A. 9.0.1+1 + KiBot v1.8.5 ld: 1/10



Drill Drawing L1 - L4 (Scale 1:1)

Drill Table

Symbol	Count	Hole Size	Plated	Hole Shape	Drill Layer Pair	Hole Type
×	24	0.33mm (12.99mils)	PTH	Round	L1 (Sig) - L4 (Sig,)	Pad
0	48	0.50mm (19.69mlls)	PTH	Round	L1 (Slg) - L4 (Slg,)	Pad
+	4	0.60mm (23.62mlls)	PTH	Slot	L1 (Slg) - L4 (Slg,)	Pad
0	20	0.80mm (31.50mils)	PTH	Round	L1 (Sig) - L4 (Sig,)	Pad
⋄	5	0.90mm (35.43mlls)	PTH	Slot	L1 (Slg) - L4 (Slg,)	Pad
Ø	2	0.99mm (38.98mlls)	PTH	Round	L1 (Slg) - L4 (Slg,)	Pad
*	6	1.00mm (39.37mlls)	PTH	Round	L1 (Slg) - L4 (Slg,)	Pad
×	2	1.30mm (51.18mils)	PTH	Round	L1 (Sig) - L4 (Sig,)	Pad
×	4	1.60mm (62.99mlls)	PTH	Round	L1 (Slg) - L4 (Slg,)	Pad
⊕	6	3.20mm (125.98mlls)	PTH	Round	L1 (Slg) - L4 (Slg,)	Pad
	Total 121					



7

