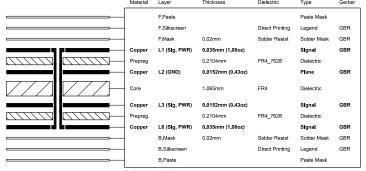
LAN8742A-breakout-board Fabrication Document

Layer Stack Legend



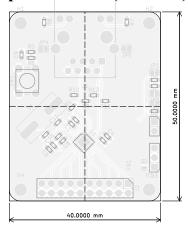
Total thickness: 1.6262mm

Note: external layer thicknesses are specified after plating

Impedance Table

Transmission Line	Impedance [ohms]	Tolerance [ohms]	Layer	Trace Width [mm]	Gap [mm]	Ref. Layers
Edge-Coupled Coated Microstrip	100	±10 %	L1	0.2032	0.28	L2

Top Fabrication (Scale 1:1)



FABRICATION NOTES (UNLESS OTHERWISE SPECIFIED)

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

DIMENSIONS OF CIRCUMSIZED RECTANGLE SHOWN ON THIS DRAWING FOR REFERENCE ONLY.

 SEE SEPARATE DRILL FILES WITH ".DRL" SUFFIX FOR HOLE LOCATIONS.

SELECTED HOLE LOCATIONS SHOWN ON THIS DRAWING FOR REFERENCE ONLY.

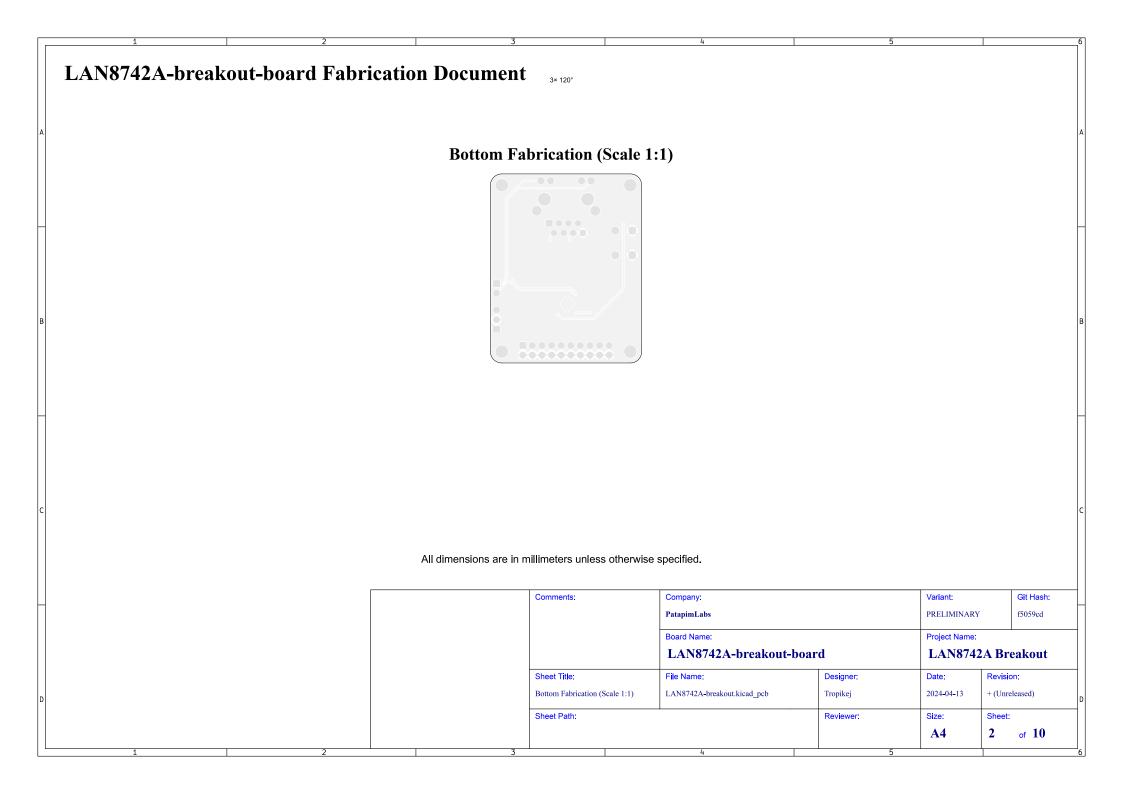
- 4) SURFACE FINISH: IMMERSION GOLD
- 5) SOLDERMASK ON BOTH SIDES OF THE BOARD SHALL BE LPI, COLOR BLACK.
- SILK SCREEN LEGEND TO BE APPLIED PER LAYER
 STACKUP USING YELLOW NON-CONDUCTIVE EPOXY INK.
- 7) ALL VIAS ARE TENTED ON BOTH SIDES UNLESS SOLDERMASK OPENED IN GERBER.
- 8) VENDOR SHOULD FOLLOW ROHS COMPLIANT PROCESS AND Pb FREE FOR MANUFACTURING
- 9) PCB MATERIAL REQUIREMENTS:
 - A. FLAMMABILITY RATING MUST MEET OR EXCEED UI 94V-0 REQUIREMENTS
 - B. Tg 170 C OR EQUIVALENT.
- C. EQUIVALENT MATERIAL SHALL BE RoHS COMPLIANT, HALOGEN FREE AND APPROVED BY PATAPIMLABS.
- 10) DESIGN GEOMETRY MINIMUM FEATURE SIZES:

BOARD SIZE 40.000 × 50.000 mm BOARD THICKNESS 1.626 mm TRACE WIDTH TRACE TO TRACE 0.200 mm MIN. HOLE (PTH) 0.200 mm MIN. HOLE (NPTH) 3.200 mm ANNULAR RING 0.150 mm COPPER TO HOLE 0.254 mm COPPER TO EDGE 0.250 mm HOLE TO HOLE 0.254 mm

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

All dimensions are in millimeters unless otherwise specified.

	Comments:	Company: PatapimLabs Board Name:		Variant:	Git Hash:
				PRELIMINARY	f5059ed
				Project Name:	
		LAN8742A-breakout-board		LAN8742A Breakout	
	Sheet Title:	File Name:	Designer:	Date:	Revision:
	Top Fabrication (Scale 1:1)	LAN8742A-breakout.kicad_pcb	Tropikej	2024-04-13	+ (Unreleased)
	Sheet Path:	Sheet Path:		Size:	Sheet:
				A4	1 of 10
					I .

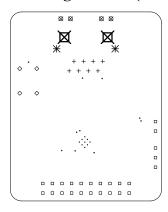


LAN8742A-breakout-board Fabrication Document

Drill Table

Symbol	Count	Hole Size	Plated	Hole Shape	Drill Layer Pair	Hole Type
×	9	0.20mm (7.87mils)	PTH	Round	L1 (Sig, PWR) - L6 (Sig, PWR)	Pad
0	10	0.25mm (9.84mlls)	PTH	Round	L1 (Sig, PWR) - L6 (Sig, PWR)	Vla
+	8	1.00mm (39.37mils)	PTH	Round	L1 (Sig, PWR) - L6 (Sig, PWR)	Pad
0	25	1.00mm (39.37mils)	PTH	Round	L1 (Sig, PWR) - L6 (Sig, PWR)	Pad
⋄	4	1.10mm (43.31mils)	PTH	Round	L1 (Sig, PWR) - L6 (Sig, PWR)	Pad
×	4	1.10mm (43.31mils)	PTH	Round	L1 (Sig, PWR) - L6 (Sig, PWR)	Pad
*	2	1.80mm (70.87mils)	PTH	Round	L1 (Sig, PWR) - L6 (Sig, PWR)	Pad
×	2	3.30mm (129.92mils)	PTH	Round	L1 (Sig, PWR) - L6 (Sig, PWR)	Pad
	Total 64					

Drill Drawing L1 - L4 (Scale 1:1)



Comments: Variant: Git Hash: Company: PatapimLabs PRELIMINARY f5059cd **Board Name:** Project Name: LAN8742A Breakout LAN8742A-breakout-board Sheet Title: File Name: Designer: Date: Revision: Drill Drawing (L1 - L4) LAN8742A-breakout.kicad_pcb Tropikej 2024-04-13 + (Unreleased) Sheet Path: Reviewer: Size: Sheet: of 10**A4** 3

Comments: Variant: Git Hash: Company: PatapimLabs PRELIMINARY f5059cd **Board Name:** Project Name: LAN8742A-breakout-board LAN8742A Breakout Sheet Title: File Name: Designer: Date: Revision: Drill Drawing (L1 - L4) LAN8742A-breakout.kicad_pcb Tropikej 2024-04-13 + (Unreleased) Sheet Path: Reviewer: Size: Sheet: 4 of 10 **A4**

