

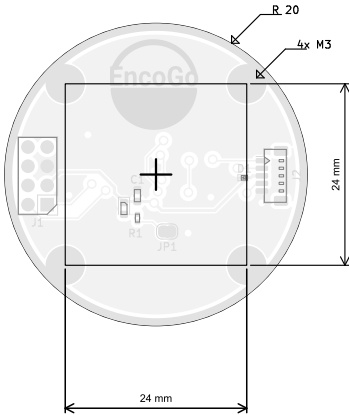
EncoGo Fabrication Document

Layer Stack Legend

	Material	Layer	Thickness	Dielectric	Type	Gerber
	F,Paste				Paste Mask	
	F,Silkscreen				Legend	GBR
	F.Mask		0.02mm	Solder Resist	Solder Mask	GBR
	Copper	L1 (Sig, PWR)	0.07mm (2.00oz)		Signal	GBR
	Core		1.48mm	FR4_7628	Dielectric	
	Copper	L6 (Sig, PWR)	0.07mm (2.00oz)		Signal	GBR
	B.Mask		0.02mm	Solder Resist	Solder Mask	GBR
	B,Silkscreen			Direct Printing	Legend	GBR
	B,Paste				Paste Mask	

Total thickness: 1.66mm
Note: external layer thicknesses are specified after plating

Top Fabrication (Scale 1:1)



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

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 BLUE.
- 6) SILK SCREEN LEGEND TO BE APPLIED PER LAYER STACKUP USING WHITE 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:

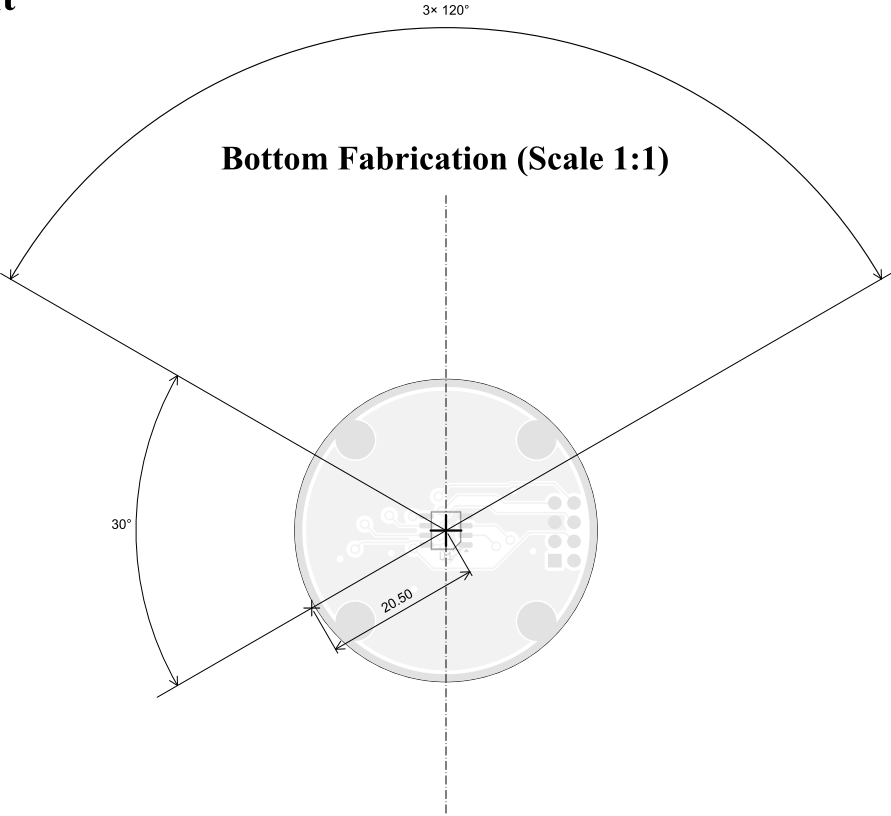
A. FLAMMABILITY RATING MUST MEET OR EXCEED UL94V-0 REQUIREMENTS.
B. Tg 170 C OR EQUIVALENT.
C. EQUIVALENT MATERIAL SHALL BE RoHS COMPLIANT, HALOGEN FREE AND APPROVED BY EVERYFLAVORROBOTICS.
- 10) DESIGN GEOMETRY MINIMUM FEATURE SIZES:

BOARD SIZE40,000 × 40,000 mm
BOARD THICKNESS1.660 mm
TRACE WIDTH0.200 mm
TRACE TO TRACE0.200 mm
MIN. HOLE (PTH)0.900 mm
MIN. HOLE (NPTH)3.200 mm
ANNULAR RING0.200 mm
COPPER TO HOLE0.254 mm
COPPER TO EDGE0.250 mm
HOLE TO HOLE0.254 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: EveryFlavorRobotics		Variant: RELEASED	Git Hash: b61bcd4
		Board Name: EncoGo		Project Name: CICD-Test	
	Sheet Title: Top Fabrication (Scale 1:1)	File Name: kibot-test-cicd.kicad_pcb	Designer: Alexchunlin	Date: 2024-04-13	Revision: 0.1.0+ (Unreleased)
	Sheet Path:		Reviewer:	Size: A4	Sheet: 1 of 8

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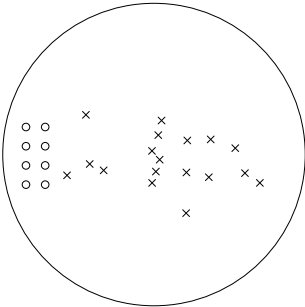
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		Board Name: EncoGo		Project Name: CICD-Test	
	Sheet Title: Bottom Fabrication (Scale 1:1)	File Name: kibot-test-cicd.kicad_pcb	Designer: Alexchunlin	Date: 2024-04-13	Revision: 0.1.0+ (Unreleased)
	Sheet Path:		Reviewer:	Size: A4	Sheet: 2 of 8

EncoGo Fabrication Document

Drill Table

Symbol	Count	Hole Size	Plated	Hole Shape	Drill Layer Pair	Hole Type
X	18	0.90mm (35,43mils)	PTH	Round	L1 (Sig, PWR) - L6 (Sig, PWR)	Via
O	8	1.00mm (39,37mils)	PTH	Round	L1 (Sig, PWR) - L6 (Sig, PWR)	Pad
	Total 26					

Drill Drawing L1 - L2 (Scale 1:1)



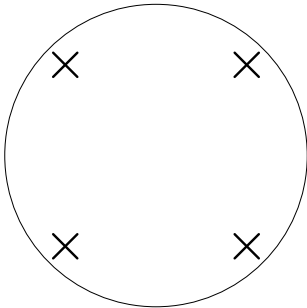
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	Sheet Path:		Reviewer:	Size: A4	Sheet: 3 of 8

EncoGo Fabrication Document

Drill Table

Symbol	Count	Hole Size	Plated	Hole Shape	Drill Layer Pair	Hole Type
X	4	3.20mm (125,98mils)	NPPTH	Round	L1 (Sig. PWR) - L6 (Sig. PWR)	Mechanical
	Total 4					

Drill Drawing L1 - L2 (Scale 1:1)



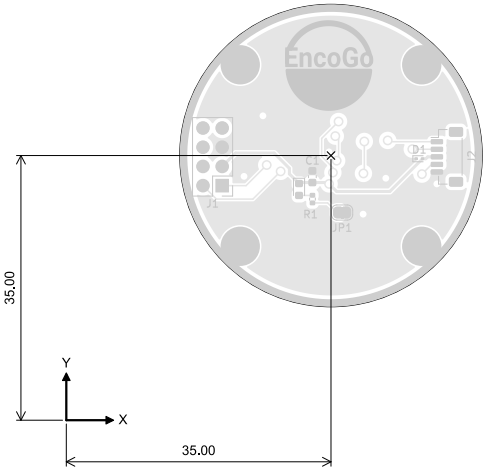
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		Board Name: EncoGo		Project Name: CICD-Test	
	Sheet Title: Drill Drawing (L1 - L2)	File Name: kibot-test-cicd.kicad_pcb	Designer: Alexchunlin	Date: 2024-04-13	Revision: 0.1.0+ (Unreleased)
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EncoGo Fabrication Document

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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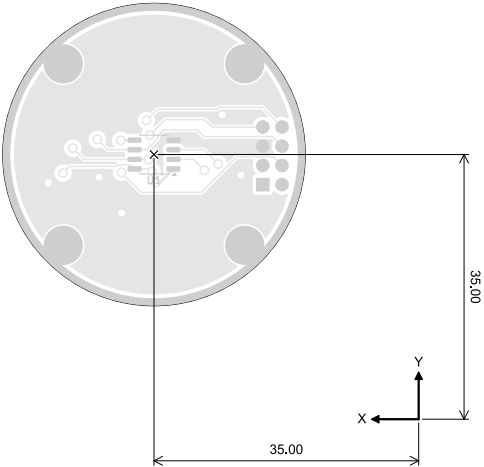
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	Sheet Title: Top Test Points (Scale 1:1)	File Name: kibot-test-cicd.kicad_pcb	Designer: Alexchunlin	Date: 2024-04-13	Revision: 0.1.0+ (Unreleased)
	Sheet Path:		Reviewer:	Size: A4	Sheet: 5 of 8

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Bottom Test Points (Scale 1:1)

Ref.	Net	X [mm]	Y [mm]
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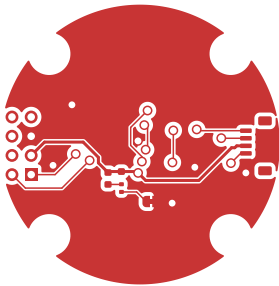


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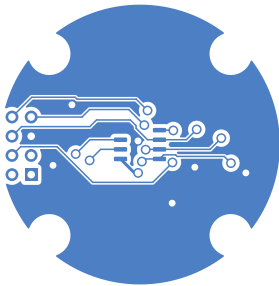
L1 (Sig, PWR) (Scale 1:1)



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	Sheet Title: L1 (Sig, PWR) (Scale 1:1)	File Name: kibot-test-cicd.kicad_pcb	Designer: Alexchunlin	Date: 2024-04-13	Revision: 0.1.0+ (Unreleased)
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L6 (Sig, PWR) (Scale 1:1)



	Comments:	Company: EveryFlavorRobotics		Variant: RELEASED	Git Hash: b61bcd4
		Board Name: EncoGo		Project Name: CICD-Test	
	Sheet Title: L6 (Sig, PWR) (Scale 1:1)	File Name: kibot-test-cicd.kicad_pcb	Designer: Alexchunlin	Date: 2024-04-13	Revision: 0.1.0+ (Unreleased)
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