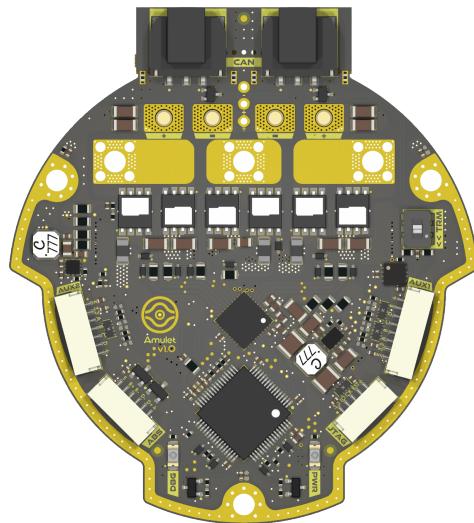
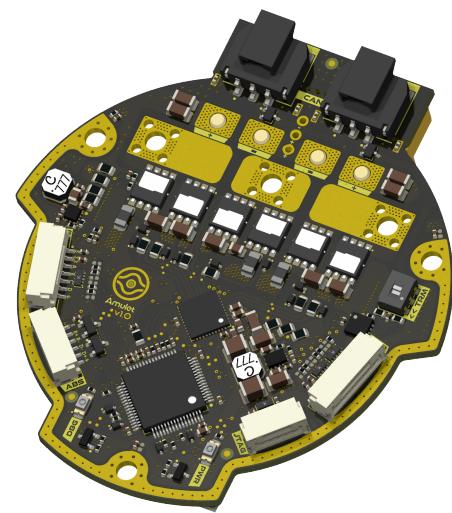
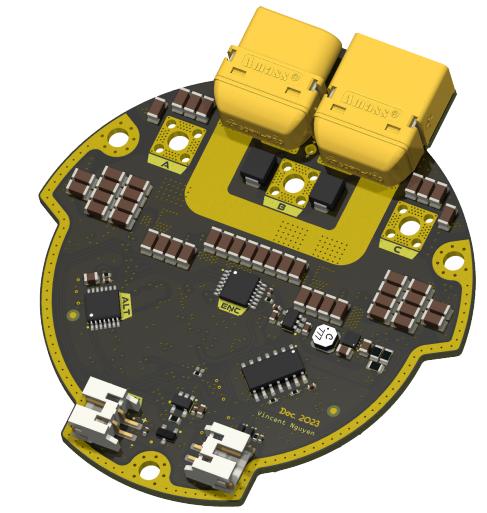
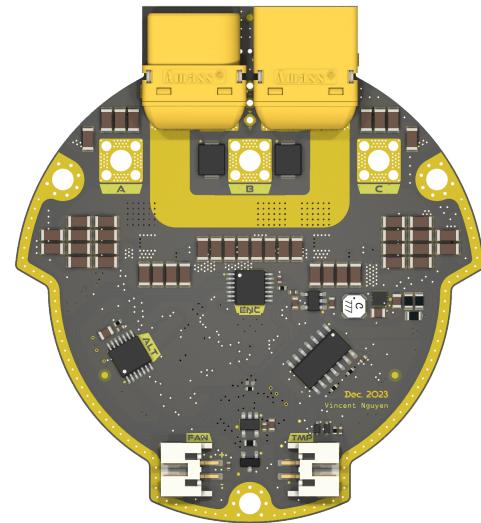


Amulet Motion Controller Fabrication Document

A

Top View

B

**Bottom View**

C

D

1

	Comments:	Company: EPFL Xplore Research	Variant: Preliminary
	Board Name: Amulet Motion Controller	Project Name: Chienpanzé	
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen
	Sheet Path:		Reviewers: Size: A4 Sheet: 1 of 1

2

3

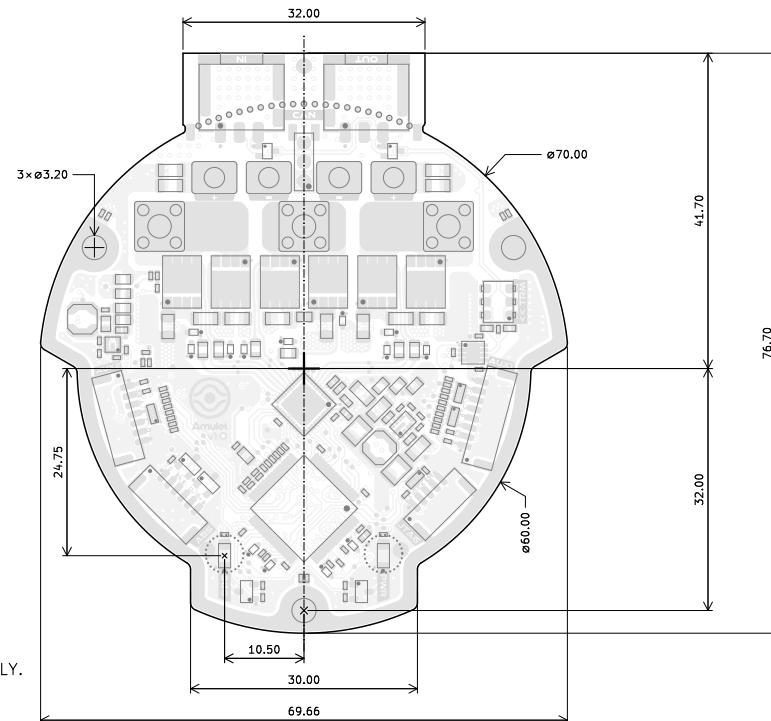
4

5

6

Amulet Motion Controller Fabrication Document

Dimensions Top



FABRICATION NOTES (UNLESS OTHERWISE SPECIFIED)

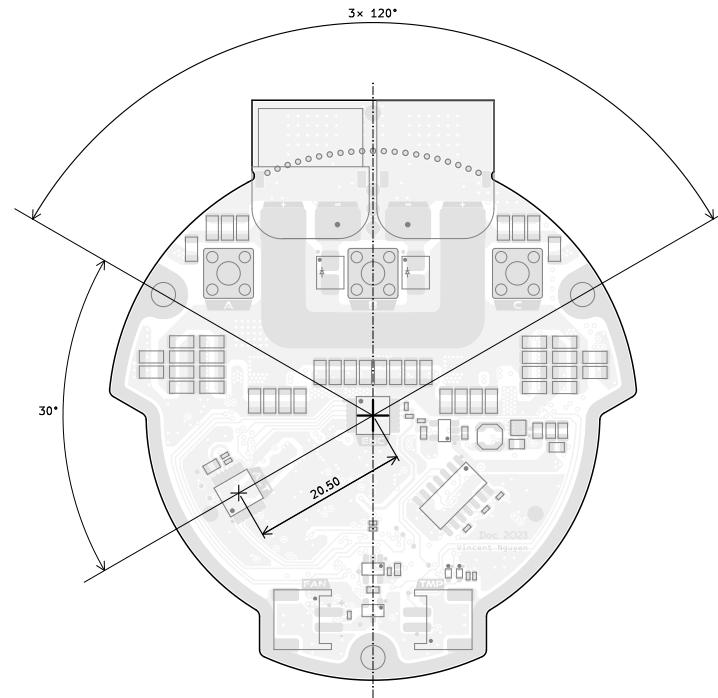
- 1) OUTLINE DEFINED IN SEPARATE GERBER FILE WITH ".GM1" SUFFIX.
DIMENSIONS OF CIRCUMSIZED RECTANGLE SHOWN ON THIS DWG FOR REF ONLY.
- 2) SEE SEPARATE DRILL FILE FOR HOLE LOCATIONS.
SELECTED HOLE LOCATIONS SHOWN ON THIS DWG FOR REF ONLY.

All dimensions are in millimeters unless otherwise specified.

	Comments:	Company: EPFL Xplore Research	Variant:  Preliminary
	Board Name: Amulet Motion Controller		Project Name: Chienpanzé
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen
	Sheet Path:	Reviewer:	Date: 2023-12-23 Revision: 1.0
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Amulet Motion Controller Fabrication Document

Dimensions Bottom



All dimensions are in millimeters unless otherwise specified.

	Comments:	Company: EPFL Xplore Research	 Variant: Preliminary
	Board Name: Amulet Motion Controller		Project Name: Chienpanzé
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen
	Sheet Path:	Reviewer:	Date: 2023-12-23
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Amulet Motion Controller Fabrication Document

A

Layer Stack Legend

Material	Layer	Thickness	Dielectric Material	Type	Gerber
	F.Paste			Paste Mask	GTP
	F.Silkscreen			Legend	GTO
	F.Mask			Solder Mask	GTS
Copper	L1 (Sig. PWR)	0.07mm (2oz)		Signal	GTL
Prepreg	L2 (GND)	0.18mm	FR-4	Dielectric	
Copper	L3 (GND)	0.035mm (1oz)		Internal Plane	G2
Core		0.4mm	FR-4	Dielectric	
Copper	L4 (Sig. PWR)	0.035mm (1oz)		Signal	G3
Prepreg	L5 (GND)	0.18mm	FR-4	Dielectric	
Copper	L6 (Sig. PWR)	0.035mm (1oz)		Signal	G4
Core		0.4mm	FR-4	Dielectric	
Copper	L7 (GND)	0.035mm (1oz)		Internal Plane	G5
Prepreg	L8 (Sig. PWR)	0.18mm	FR-4	Dielectric	
Copper	L9 (GND)	0.07mm (2oz)		Signal	GBL
	B.Mask			Solder Mask	GBS
	B.Silkscreen			Legend	GBO
	B.Paste			Paste Mask	GBP

Total thickness: 1.62mm

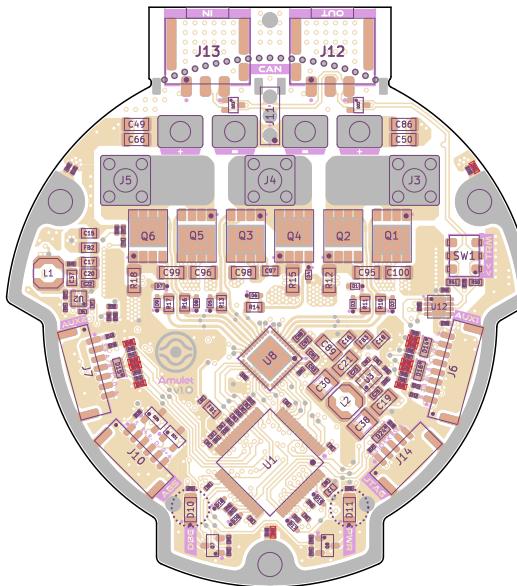
Note: external layer thicknesses are specified after plating.

FABRICATION NOTES (CONT.)

- 3) IMPEDANCE CONTROL REQUIRED.
Microstrip 100-Ohm Differential (L1 ref. L2, L6 ref. L5)
0.2032mm width, 0.28mm spacing
- 4) CONFIRM TRACE WIDTHS AND SPACINGS. ADJUST STACKUP AS NECESSARY.
- 5) DESIGN GEOMETRY MINIMUM FEATURE SIZES:

TRACE WIDTH	0.20 mm	TRACE TO TRACE	0.20 mm
MIN. HOLE (plated)	0.25 mm	MIN. HOLE (unplated)	0.70 mm
ANNULAR RING	0.15 mm	COPPER TO HOLE	0.254 mm
COPPER TO EDGE	0.25 mm	HOLE TO HOLE	0.254 mm

Assembly Top



C

Amulet Motion Controller Fabrication Document

A

A

B

B

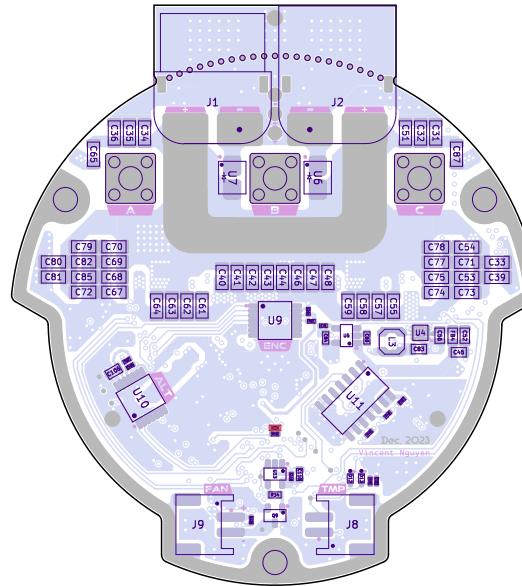
C

C

D

D

Assembly Bottom



	Comments:	Company: EPFL Xplore Research	 Variant: Preliminary
		Board Name: Amulet Motion Controller	
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen
	Sheet Path:	Reviewer:	Date: 2023-12-23 Revision: 1.0
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Amulet Motion Controller Fabrication Document

A

A

B

B

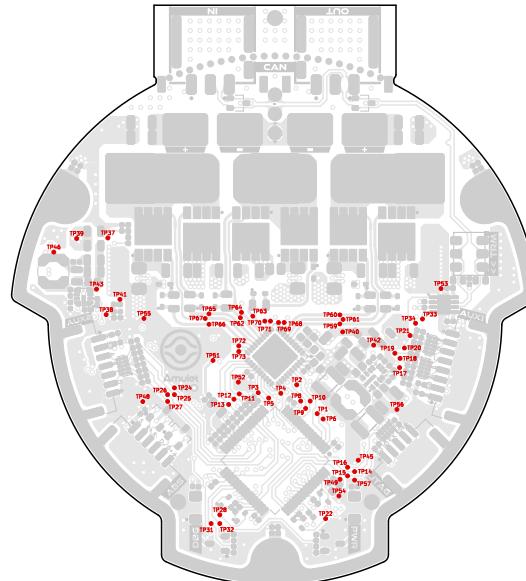
C

C

D

D

Test Points Top



	Comments:	Company: EPFL Xplore Research	Variant: Preliminary
	Board Name: Amulet Motion Controller		Project Name: Chienpanzé
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen
	Sheet Path:	Reviewer:	Date: 2023-12-23 Revision: 1.0
			Size: A4 Sheet: 1 of 1

Amulet Motion Controller Fabrication Document

A

A

B

B

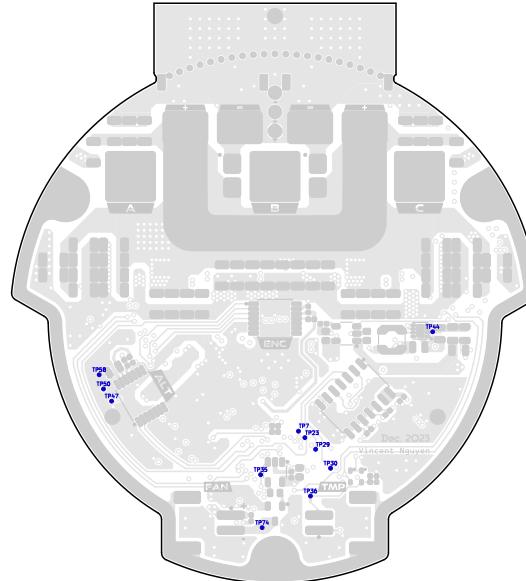
C

C

D

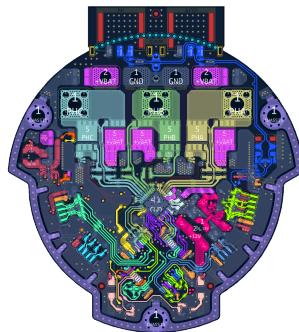
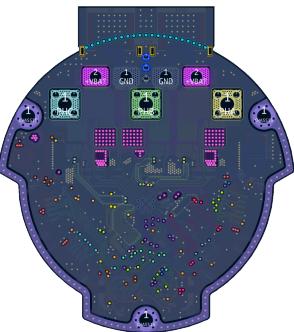
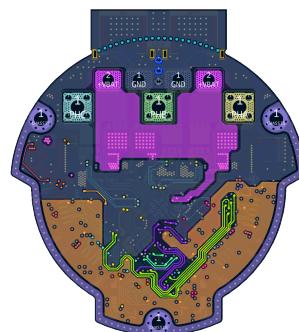
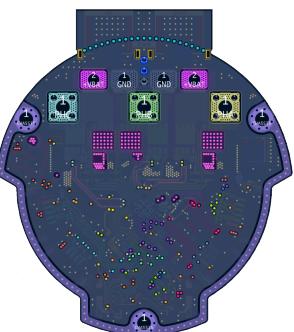
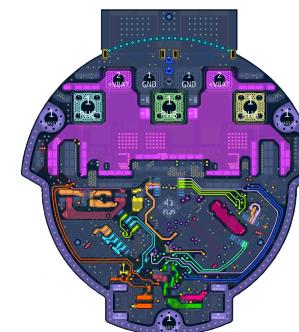
D

Test Points Bottom



	Comments:	Company: EPFL Xplore Research	Variant:  Xplore Preliminary
	Board Name: Amulet Motion Controller		Project Name: Chienpanzé
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen
	Sheet Path:	Reviewer:	Date: 2023-12-23 Revision: 1.0
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Amulet Motion Controller Fabrication Document

L1 (SIG/PWR)**L2 (GND)****L3 (SIG/PWR)****L4 (SIG/PWR)****L5 (GND)****L6 (SIG/PWR)**

A

A

B

B

C

C

D

D

1

2

3

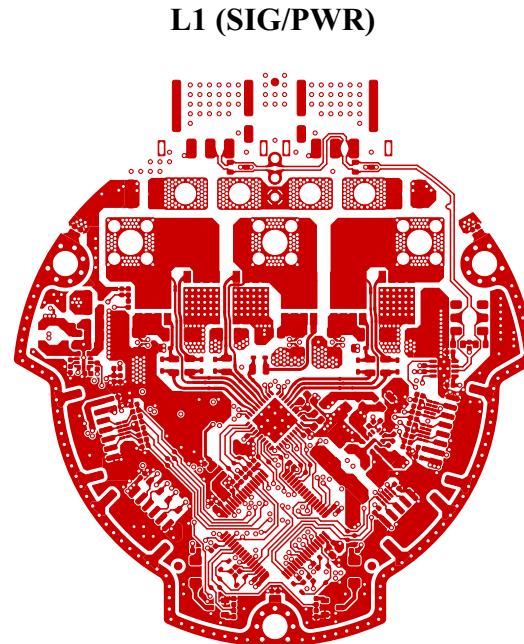
4

5

6

	Comments:	Company: EPFL Xplore Research	 Variant: Preliminary
	Board Name: Amulet Motion Controller		Project Name: Chienpanzé
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen
	Sheet Path:	Reviewer:	Date: 2023-12-23 Revision: 1.0
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Amulet Motion Controller Fabrication Document



	Comments:	Company: EPFL Xplore Research	Variant:  Preliminary
	Board Name: Amulet Motion Controller	Project Name: Chienpanzé	
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen
	Sheet Path:	Reviewer:	Date: 2023-12-23 Revision: 1.0
			Size: A4 Sheet: 1 of 1

Amulet Motion Controller Fabrication Document

A

A

B

B

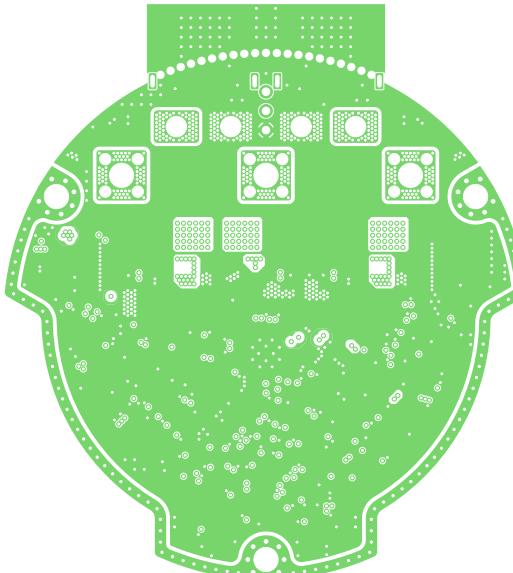
C

C

D

D

L2 (GND)



	Comments:	Company: EPFL Xplore Research	Variant: Preliminary		
	Board Name: Amulet Motion Controller	Project Name: Chienpanzé			
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen		
	Sheet Path:		Reviewers: A4 Sheet: 1 of 1	Date: 2023-12-23	Revision: 1.0

Amulet Motion Controller Fabrication Document

A

A

B

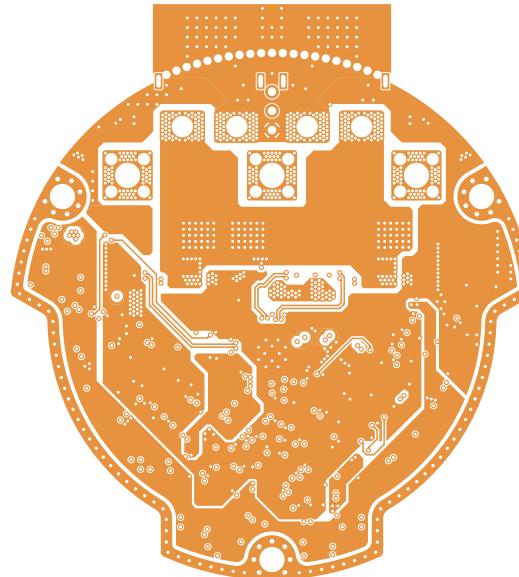
B

C

C

D

D

L3 (SIG/PWR)

	Comments:	Company: EPFL Xplore Research	Variant:  Preliminary
	Board Name: Amulet Motion Controller	Project Name: Chienpanzé	
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Date: 2023-12-23
	Sheet Path:	Designer: Vincent Nguyen	Revision: 1.0
		Reviewer:	Size: A4
			Sheet: 1 of 1

Amulet Motion Controller Fabrication Document

A

A

B

B

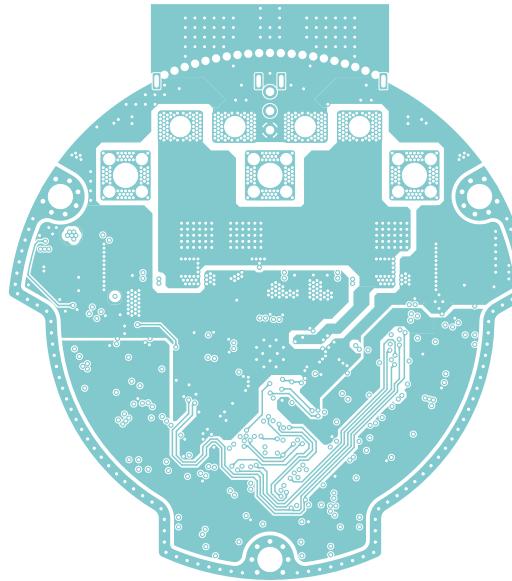
C

C

D

D

L4 (SIG/PWR)



	Comments:	Company: EPFL Xplore Research	Variant:  Preliminary
	Board Name: Amulet Motion Controller	Project Name: Chienpanzé	
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen
	Sheet Path:	Reviewer:	Date: 2023-12-23 Revision: 1.0
			Size: A4 Sheet: 1 of 1

Amulet Motion Controller Fabrication Document

A

A

B

B

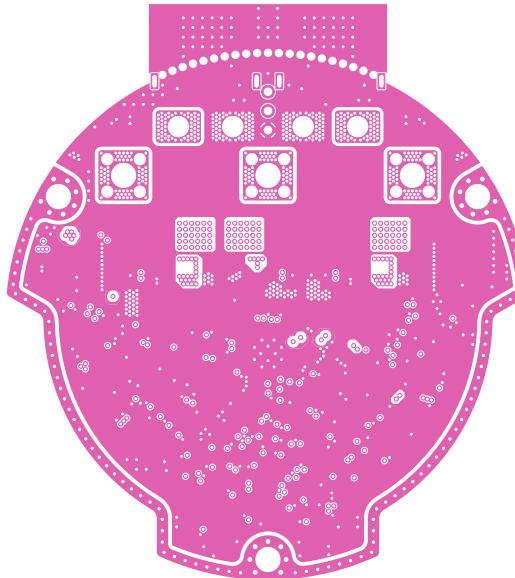
C

C

D

D

L5 (GND)



	Comments:	Company: EPFL Xplore Research	Variant:  Preliminary
	Board Name: Amulet Motion Controller	Project Name: Chienpanzé	
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen
	Sheet Path:		Reviewers: A4 Sheet: 1 of 1

Amulet Motion Controller Fabrication Document

A

A

B

B

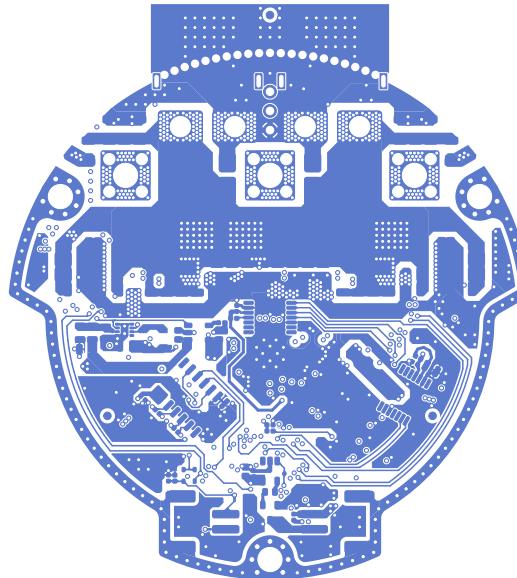
C

C

D

D

L6 (SIG/PWR)



	Comments:	Company: EPFL Xplore Research	Variant:  Preliminary
	Board Name: Amulet Motion Controller	Project Name: Chienpanzé	
	Sheet Title: Amulet Motion Controller Assembly	File Name: amulet_controller.kicad_pcb	Designer: Vincent Nguyen
	Sheet Path:	Reviewer:	Date: 2023-12-23 Revision: 1.0
			Size: A4 Sheet: 1 of 1