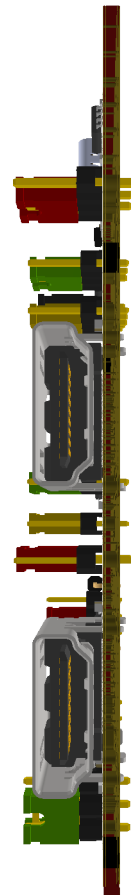
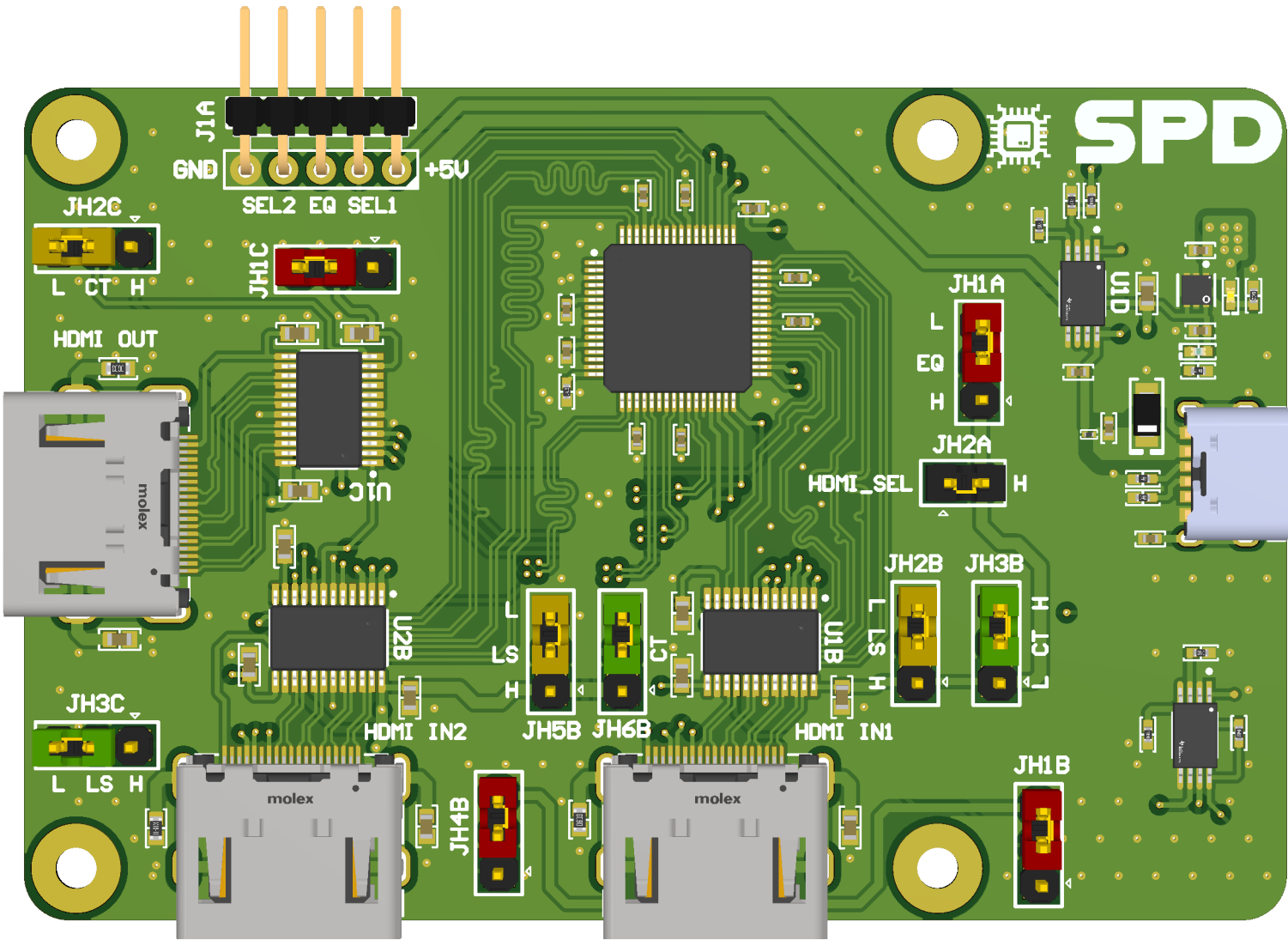


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Realistic View Top

| THIRD ANGLE PROJECTION | | | |
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| | | | |
| | | NEXT ASSY | USED ON |
| | | APPLICATION | |


| APPROVALS | | DATE | |
|---------------------------|------------|---------------|---------------------|
| ENGINEER: DHARAGESWARAN S | | 14.05.2022 | |
| DESIGNER: DHARAGESWARAN S | | 14.05.2022 | |
| CHECKER: DHARAGESWARAN S | | 14.05.2022 | |
| Reference Documents | | | |
| BOM DOC: | | #012022051440 | |
| ASSY DOC: | | #012022051420 | |
| SCH DOC: | | #012022051400 | |
| PCB DOC: | | #012022051410 | |
| PART NO: | | #0120220500 | sdhamuvkl@gmail.com |
| TITLE: | | HDMI-MUX | |
| SIZE: | CAGE CODE: | DWG NO: | REV: |
| A4 | | #012022051420 | V1.0 |
| SCALE: | FILE NAME: | RASP.PCBDwf | SHEET: 1 OF 10 |

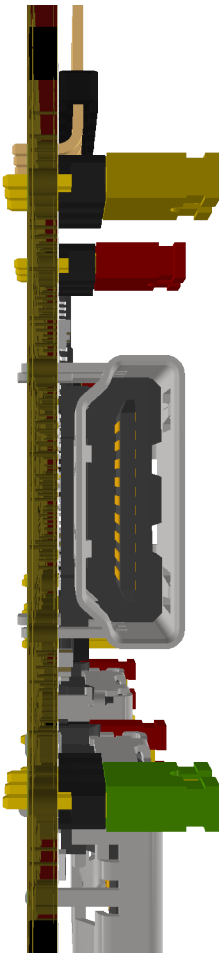
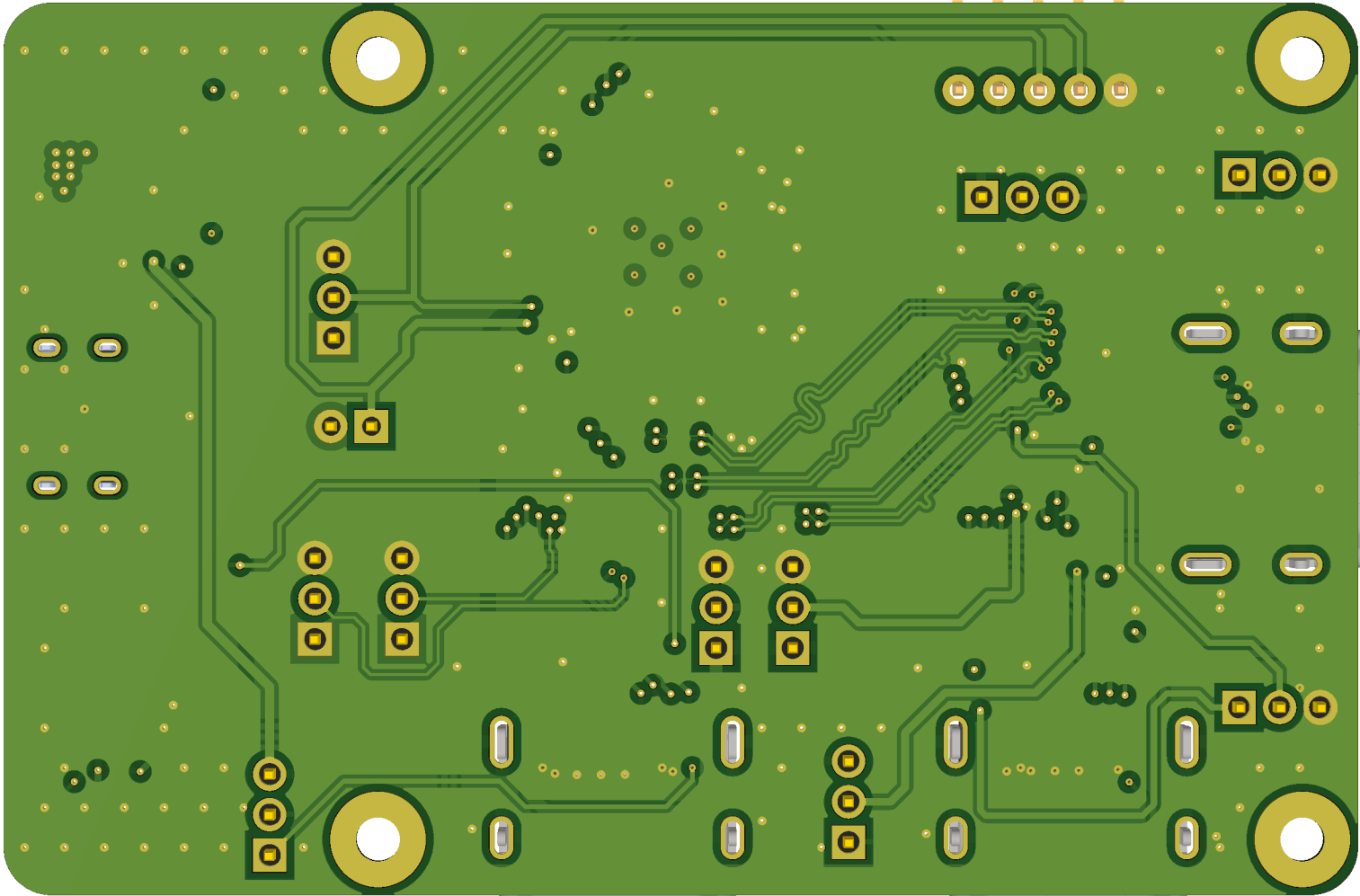


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DWG NO: #012022051430
REV: jte

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Realistic View Bottom

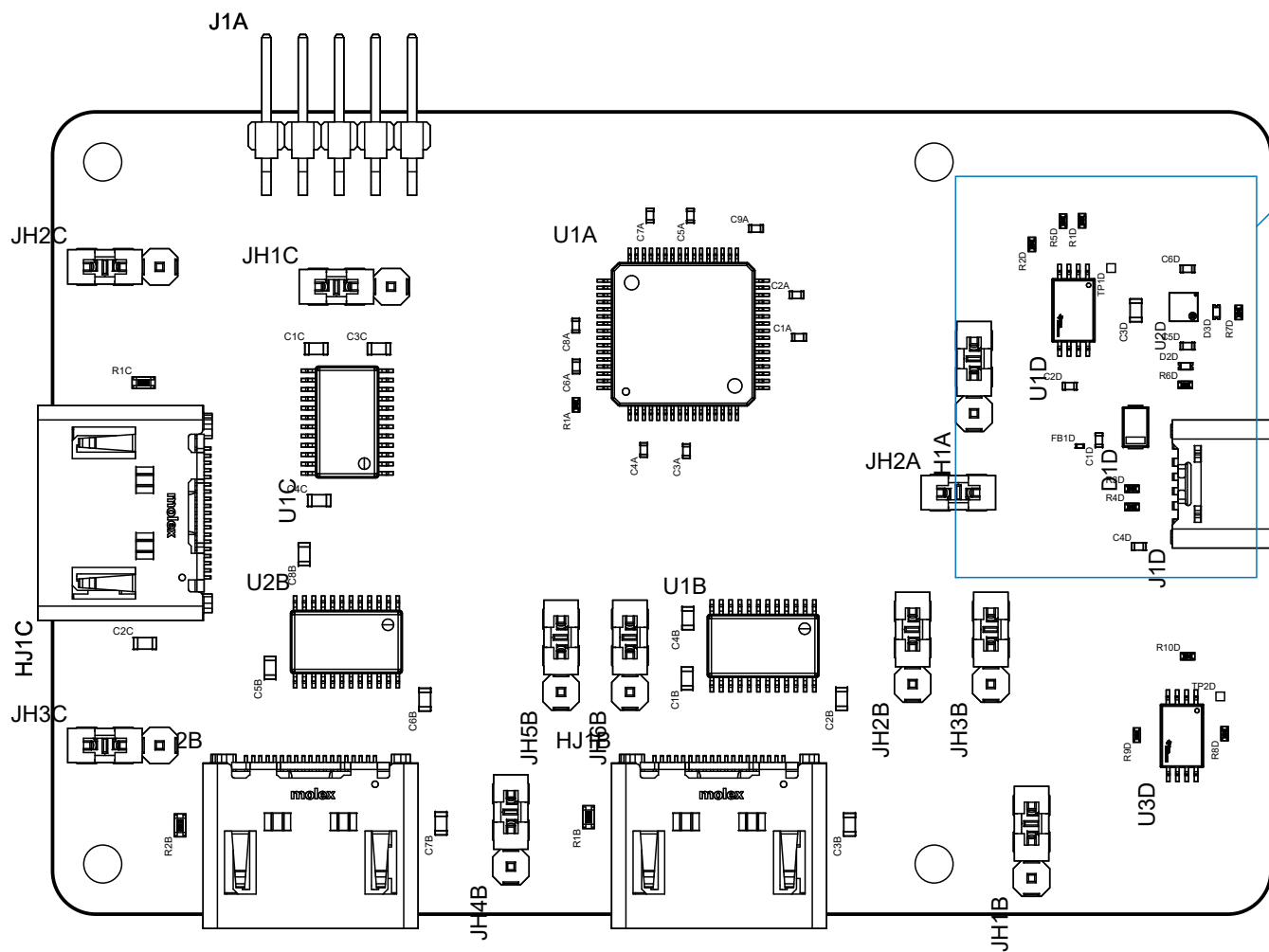
| THIRD ANGLE PROJECTION | | | |
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| | | NEXT ASSY | USED ON |
| | | APPLICATION | |

| APPROVALS | | DATE | |
|---------------------------|--|--------------------------------|--|
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| DESIGNER: DHARAGESWARAN S | | 14.05.2022 | |
| CHECKER: DHARAGESWARAN S | | 14.05.2022 | |
| Reference Documents | | | |
| BOM DOC: | | #012022051430 | |
| ASSY DOC: | | #012022051420 | |
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| PCB DOC: | | #012022051410 | |
| PART NO: | | #0120220500 | |
| TITLE: | | Realistic View Bottom HDMI-MUX | |
| SIZE: | | A4 | |
| CAGE CODE: | | | |
| DWG NO: | | #012022051420 | |
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| | | RASP.PCBDwf | |
| SHEET: | | 2 OF 10 | |

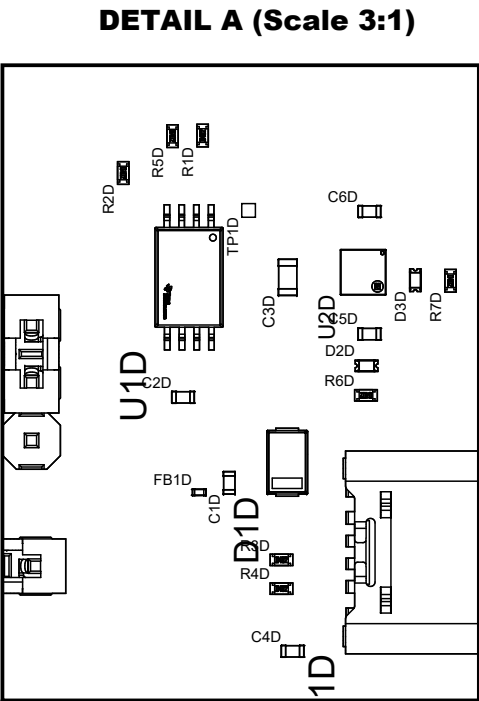


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View from Top side (Scale 2:1)

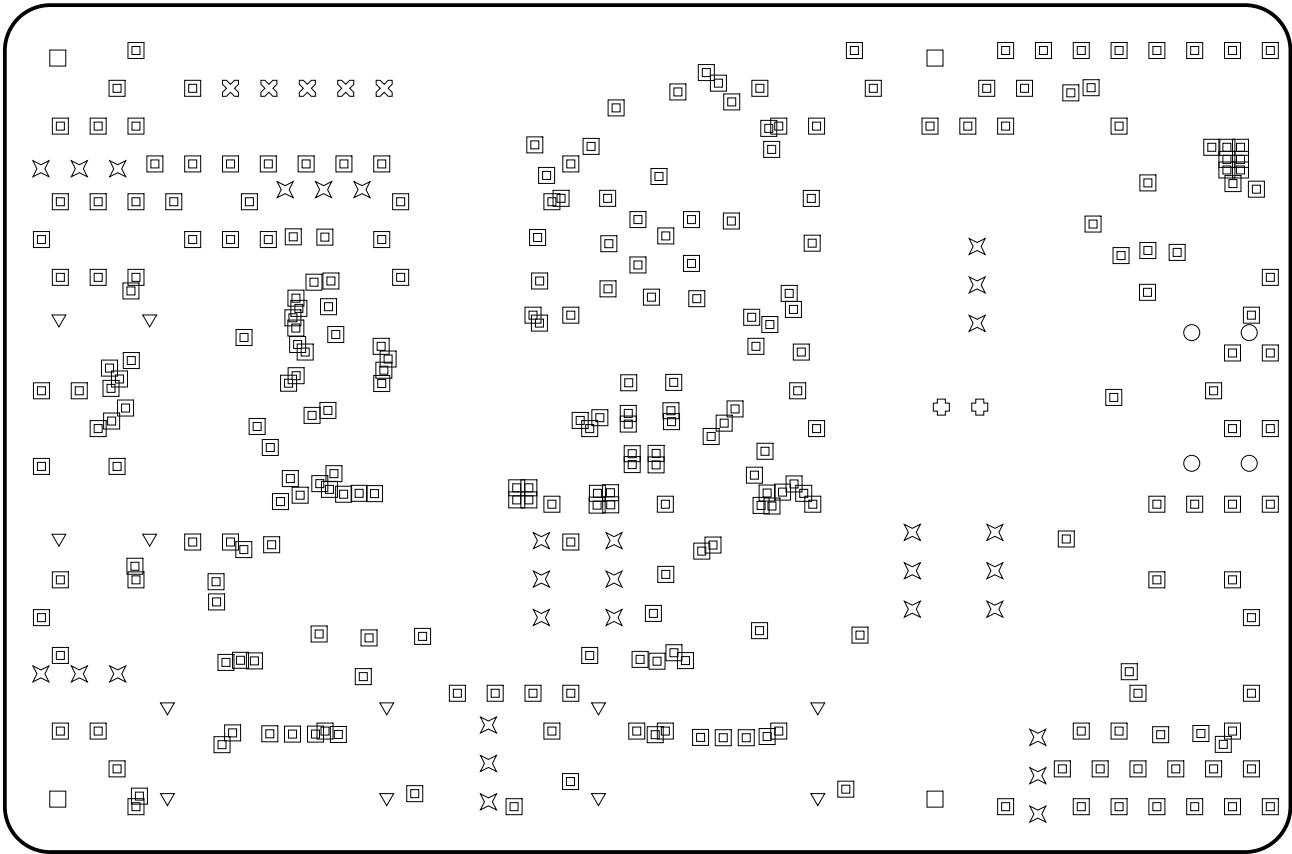


DETAIL A (Scale 3:1)

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| APPROVALS | | DATE | |  SPD | |
| ENGINEER: DHARAGESWARAN S | | 14.05.2022 | | | |
| DESIGNER: DHARAGESWARAN S | | 14.05.2022 | | | |
| CHECKER: DHARAGESWARAN S | | 14.05.2022 | | | |
| Reference Documents BOM DOC: #012022051440 ASSY DOC: #012022051420 SCH DOC: #012022051400 PCB DOC: #012022051410 | | | | PART NO: #0120220500 sdhamuvkl@gmail.com | |
| TITLE: HDMI-MUX | | | | | |
| SIZE: | | CAGE CODE: | | DWG NO: | |
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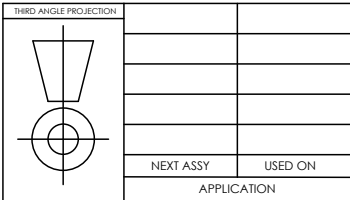
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Drill Drawing View (Scale 2:1)



Drill Table

| Symbol | Count | Hole Size | Plated | Hole Tolerance |
|--------|-----------|-----------|------------|-----------------|
| ☐ | 280 | 0.20mm | Plated | |
| ○ | 4 | 0.60mm | Plated | |
| ▽ | 12 | 0.90mm | Plated | |
| ✕ | 5 | 1.10mm | Plated | +0.00mm/-0.25mm |
| ⊕ | 2 | 1.20mm | Plated | |
| ✕ | 30 | 1.40mm | Plated | |
| □ | 4 | 2.75mm | Non-Plated | |
| | 337 Total | | | |



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| APPROVALS | | DATE | |  SPD | |
| ENGINEER: DHARAGESWARAN S | | 14.05.2022 | | | |
| DESIGNER: DHARAGESWARAN S | | 14.05.2022 | | | |
| CHECKER: DHARAGESWARAN S | | 14.05.2022 | | | |
| PART NO: #0120220500 | | | | sdhamuvkl@gmail.com | |
| Reference Documents | | | | TITLE: HDMI-MUX | |
| BOM DOC: #012022051440 | | | | SIZE: CAGE CODE: DWG NO: #012022051420 REV: V1.0 | |
| ASSY DOC: #012022051420 | | | | | |
| SCH DOC: #012022051400 | | | | | |
| PCB DOC: #012022051410 | | | | | |
| SCALE: | | FILE NAME: RASP.PCBDwf | | SHEET: 4 OF 10 | |

| REV STATUS OF SHEETS | REV | | | | | | | | | | | REVISIONS | | | | |
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Layer Stack Legend

| Material | Layer | Thickness | Dielectric Material | Type | Gerber |
|------------------|----------------|-----------|---------------------|-------------|--------|
| | Top Overlay | | | Legend | GTO |
| Surface Material | Top Solder | 0.01mm | Solder Resist | Solder Mask | GTS |
| Copper | Top Layer | 0.04mm | | Signal | GTL |
| Prepreg | | 0.21mm | PP-023 | Dielectric | |
| Copper | IN1(GND) | 0.02mm | | Signal | G1 |
| Core | | 1.06mm | FR-4 | Dielectric | |
| Copper | IN2(GND) | 0.02mm | | Signal | G2 |
| Prepreg | | 0.21mm | PP-023 | Dielectric | |
| Copper | Bottom Layer | 0.04mm | | Signal | GBL |
| Surface Material | Bottom Solder | 0.01mm | Solder Resist | Solder Mask | GBS |
| | Bottom Overlay | | | Legend | GBO |

Total thickness: 1.61mm

| THIRD ANGLE PROJECTION | |
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| NEXT ASSY | USED ON |
| APPLICATION | |

| APPROVALS | | DATE |
|---------------------------|-------------|----------------|
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| CHECKER: DHARAGESWARAN S | | 14.05.2022 |
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| SCH DOC: | | #012022051400 |
| PCB DOC: | | #012022051410 |
| PART NO: | | #0120220500 |
| TITLE: | | HDMI-MUX |
| SIZE: | CAGE CODE: | DWG NO: |
| A4 | | #012022051420 |
| SCALE: | FILE NAME: | SHEET: 5 OF 10 |
| | RASP.PCBDwf | |

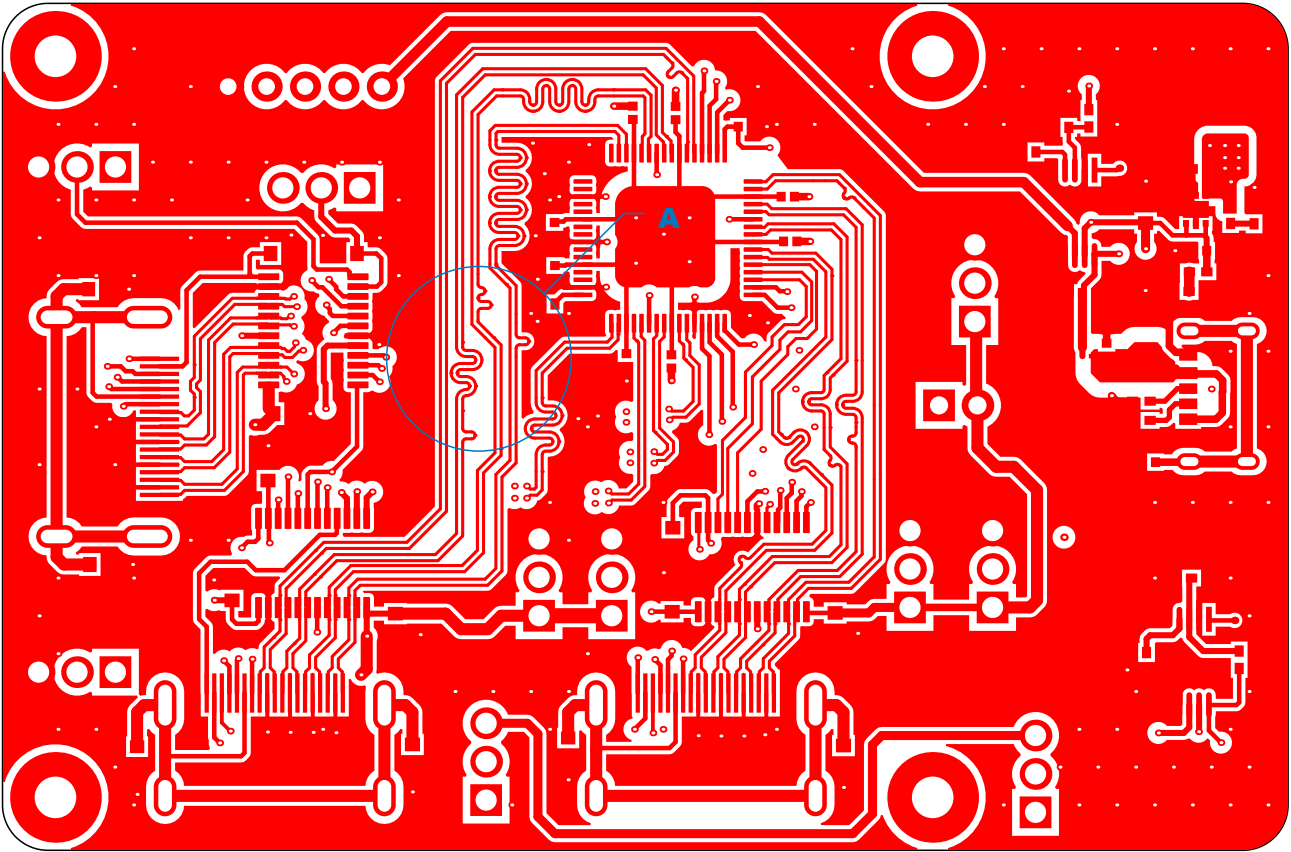


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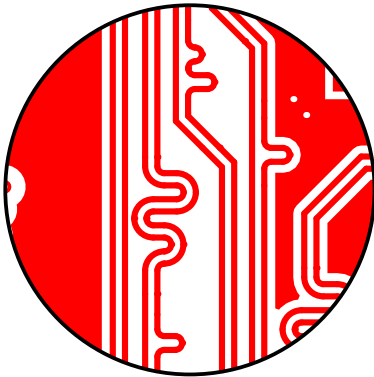
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Top Layer (Scale 2:1)



DETAIL A (Scale 4:1)



Delay Tuning within
Differential Pair & within
Differential Groups (10ps)

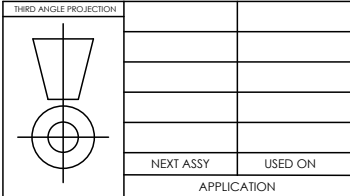
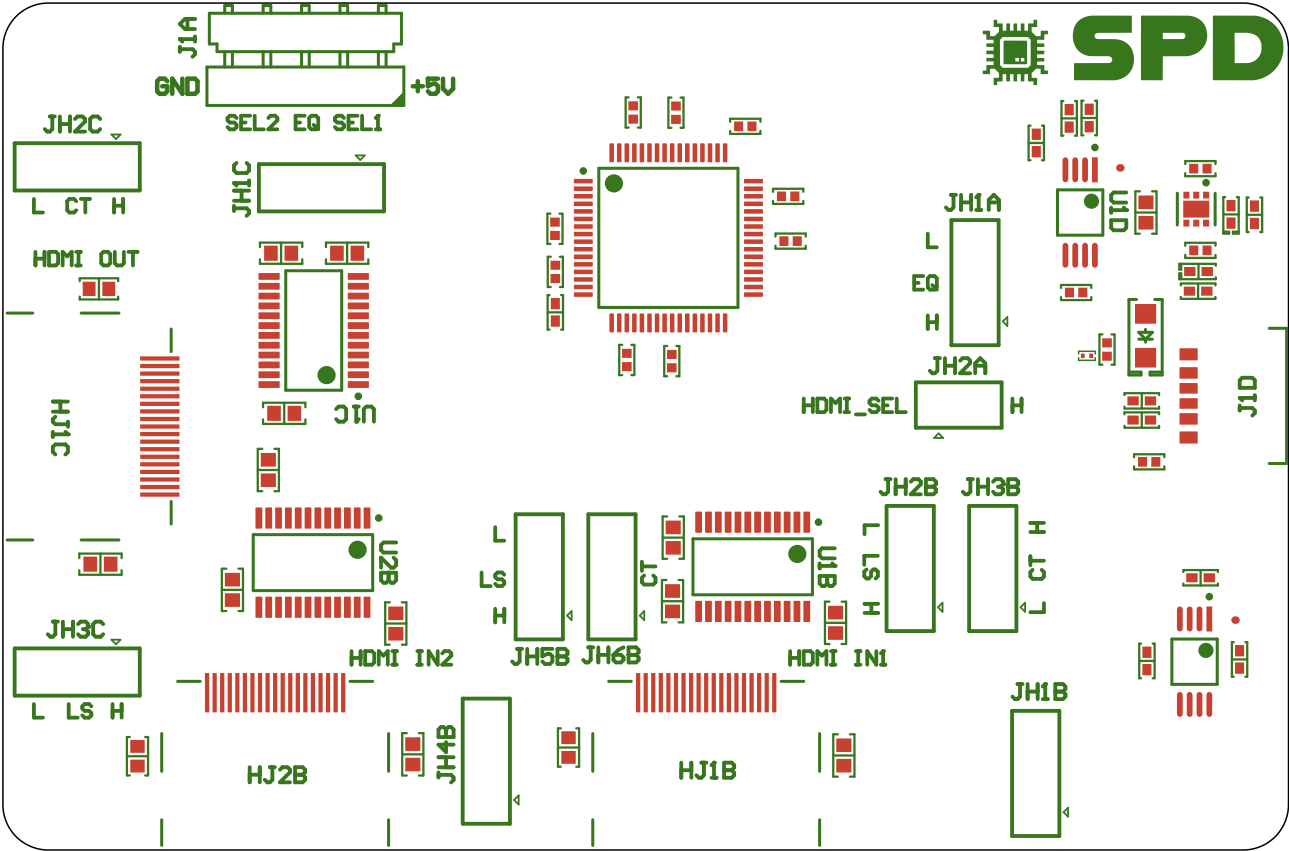
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| | NEXT ASSY | USED ON | |
| APPLICATION | | | |

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| SCH DOC: | #012022051400 | |
| PCB DOC: | #012022051410 | |

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|----------|------------|-------------|---------------|---------------------|
| | | | | |
| PART NO: | | #0120220500 | | sdhamuvkl@gmail.com |
| TITLE: | | HDMI-MUX | | |
| SIZE: | CAGE CODE: | DWG NO: | #012022051420 | |
| A4 | | | V1.0 | |
| SCALE: | FILE NAME: | RASP.PCBDwf | | SHEET: 6 OF 10 |

| REV STATUS OF SHEETS | REV | | | | | | | | | | REVISIONS | | | | |
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Top Paste (Scale 2:1)



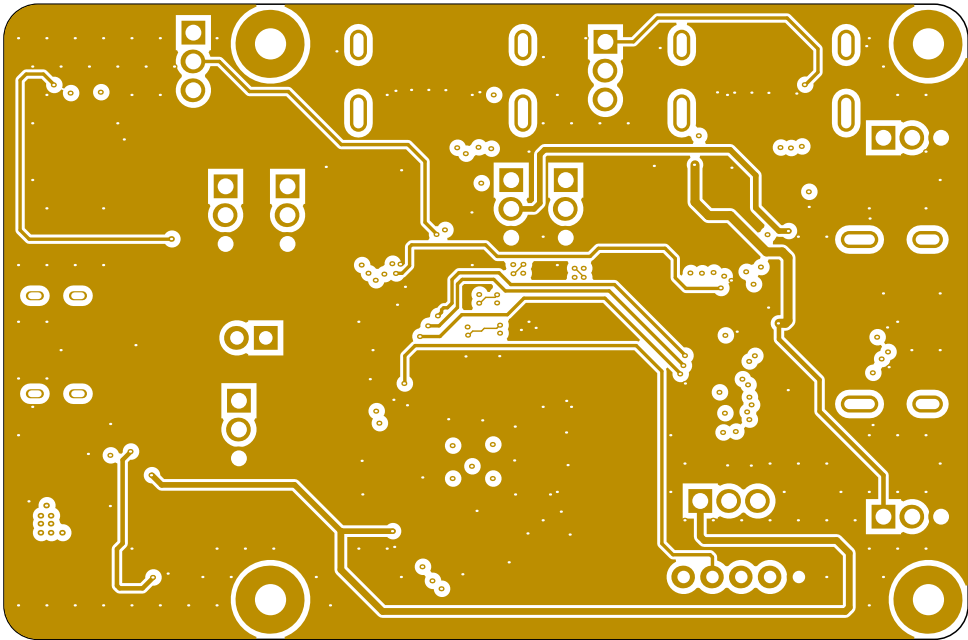
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| ENGINEER: | DHARAGESWARAN S | 14.05.2022 | |
| DESIGNER: | DHARAGESWARAN S | 14.05.2022 | |
| CHECKER: | DHARAGESWARAN S | 14.05.2022 | |
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| ASSY DOC: | #012022051420 | | |
| SCH DOC: | #012022051400 | | |
| PCB DOC: | #012022051410 | | |
| PART NO: | | #0120220500 | sdhamuvkl@gmail.com |
| TITLE: | | HDMI-MUX | |
| SIZE: | A4 | CAGE CODE: | |
| DWG NO: | #012022051420 | REV: | V1.0 |
| SCALE: | | FILE NAME: | RASP.PCBDwf |
| SHEET: | 7 | OF | 10 |



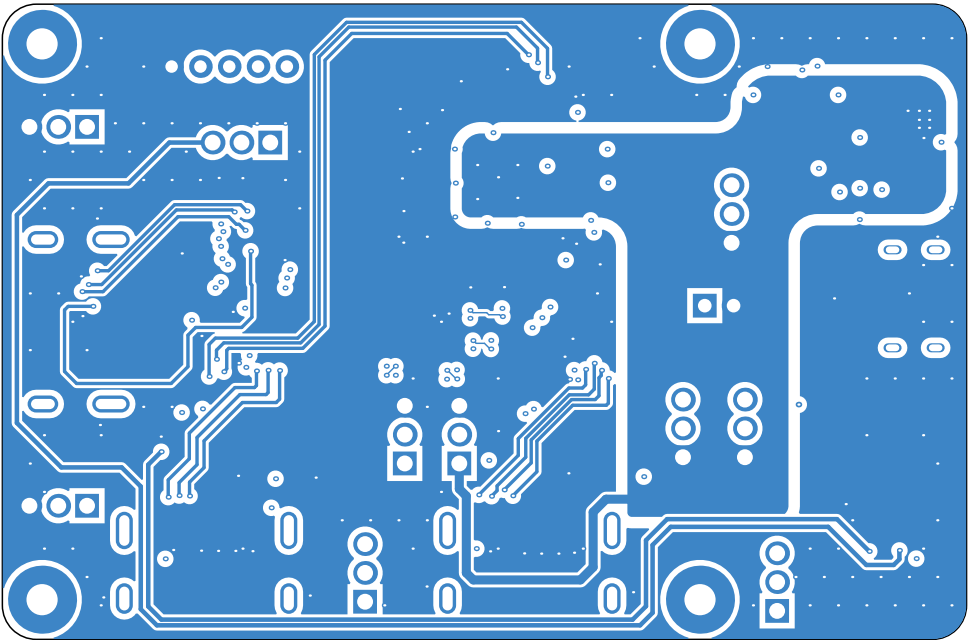
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IN1(GND) (Scale 1.5:1)




IN2(GND) (Scale 1.5:1)



| THIRD ANGLE PROJECTION | | | |
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| | NEXT ASSY | USED ON | |
| APPLICATION | | | |

| APPROVALS | | DATE | |
|---------------------------|--|----------------|--|
| ENGINEER: DHARAGESWARAN S | | 14.05.2022 | |
| DESIGNER: DHARAGESWARAN S | | 14.05.2022 | |
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| Reference Documents | | | |
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| SCH DOC: | | #012022051400 | |
| PCB DOC: | | #012022051410 | |
| SCALE: | | FILE NAME: | |
| RASP.PCBDwf | | SHEET: 8 OF 10 | |



SPD

PART NO: #0120220500

sdhamuvkl@gmail.com

TITLE:

HDMI-MUX

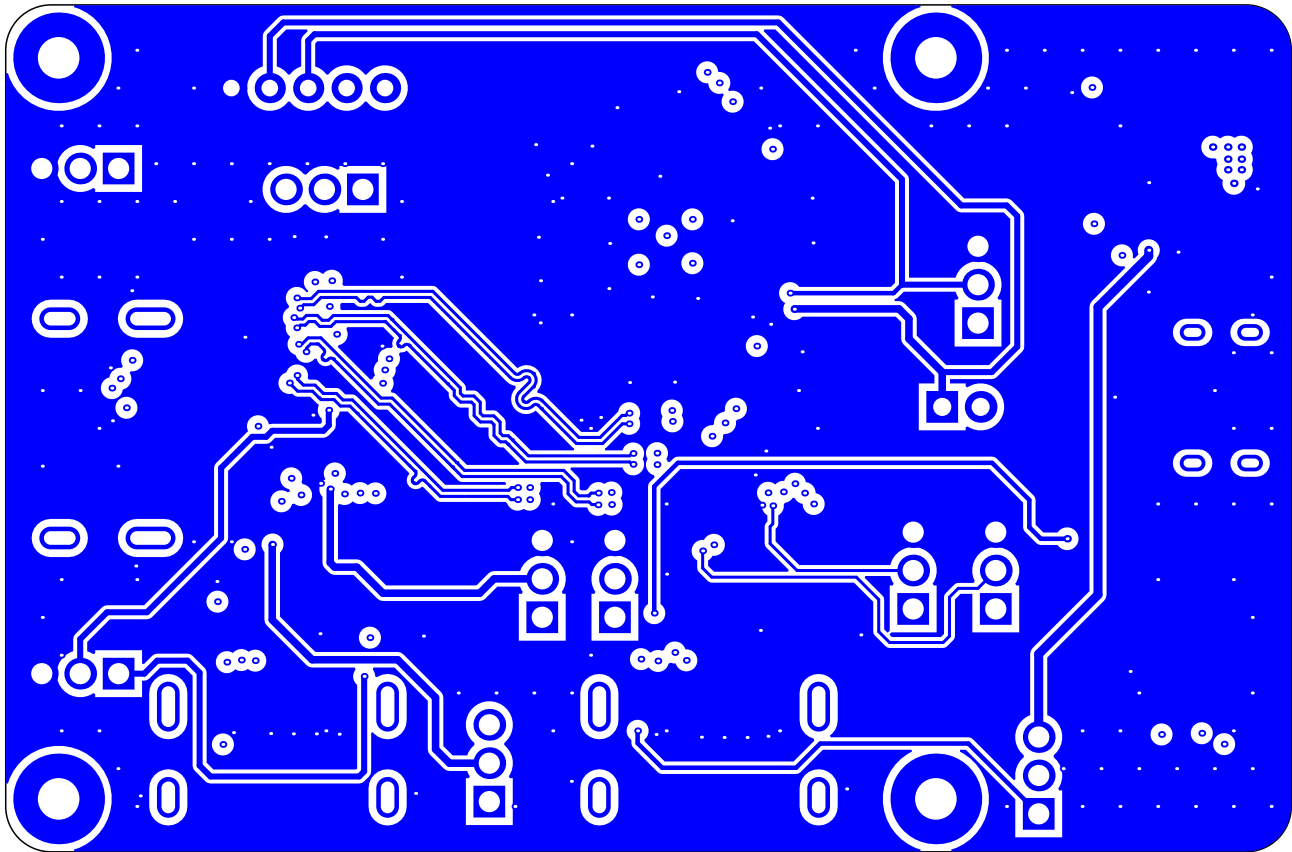
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REV: V1.0

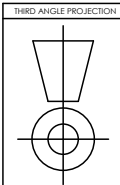
Bottom Layer (Scale 2:1)



| REV STATUS OF SHEETS | REV | | | | | | | | | | REVISIONS | | | | |
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Transmission Line Structure Table

| Target Impedance | Calculated Impedance | Trace layer | Wide Trace Width | Narrow Trace Width | Gap | Reference layers | Clearance | Target Tolerance |
|------------------|----------------------|--------------|------------------|--------------------|--------|-----------------------|-----------|------------------|
| 100 | 99.96 | Top Layer | 0.20mm | 0.20mm | 0.20mm | IN1(GND) | 0.13mm | 5% |
| 100 | 99.99 | IN1(GND) | 0.13mm | 0.13mm | 0.19mm | Top Layer,IN2(GND) | 0.13mm | 5% |
| 100 | 99.99 | IN2(GND) | 0.13mm | 0.13mm | 0.19mm | IN1(GND),Bottom Layer | 0.13mm | 5% |
| 100 | 99.96 | Bottom Layer | 0.20mm | 0.20mm | 0.20mm | IN2(GND) | 0.13mm | 5% |



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| | | | |
|----------------------|------------------------|-----------------------|----------------|
| PART NO: #0120220500 | | sdhamuvkl@gmail.com | |
| TITLE: HDMI-MUX | | | |
| SIZE: A4 | CAGE CODE: | DWG NO: #012022051420 | REV: V1.0 |
| SCALE: | FILE NAME: RASP.PCBDwf | | SHEET: 9 OF 10 |

