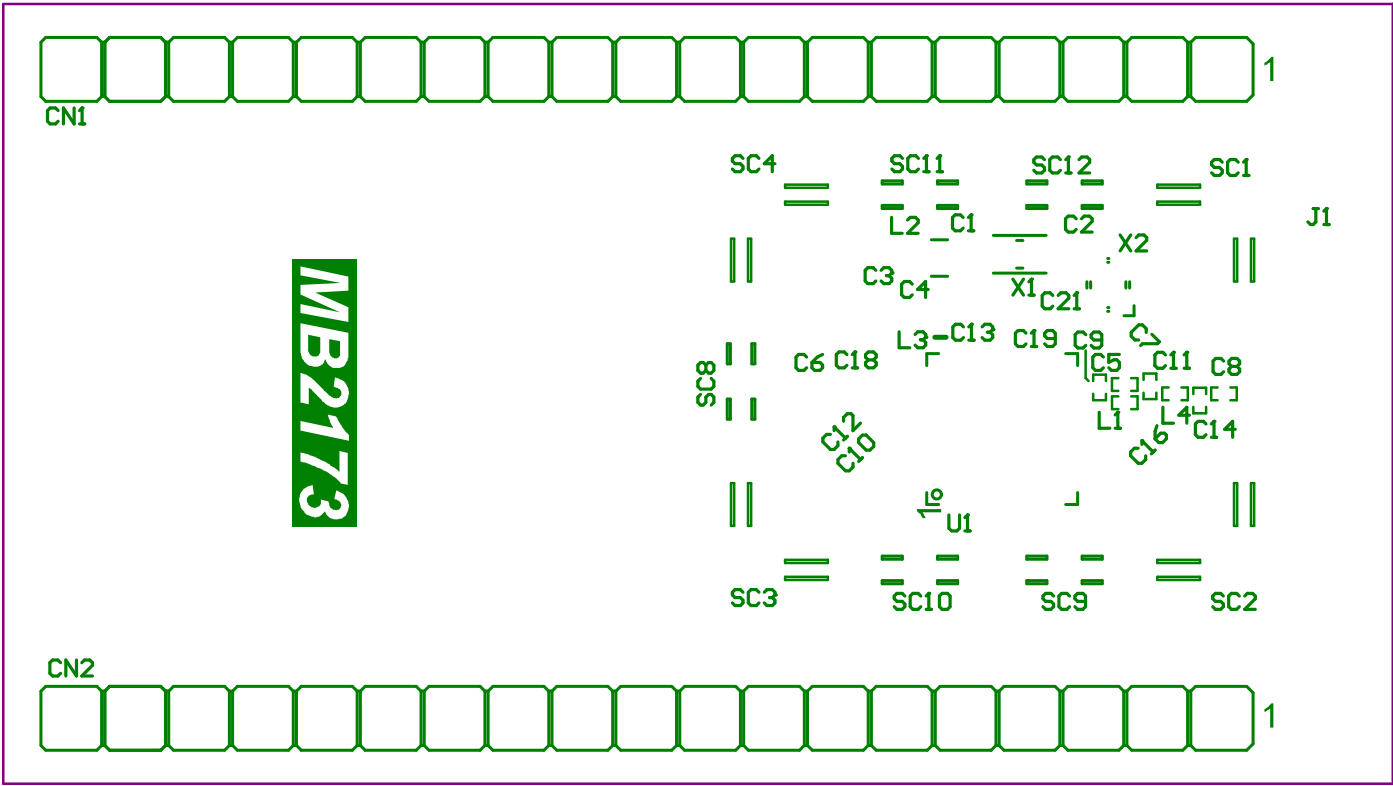
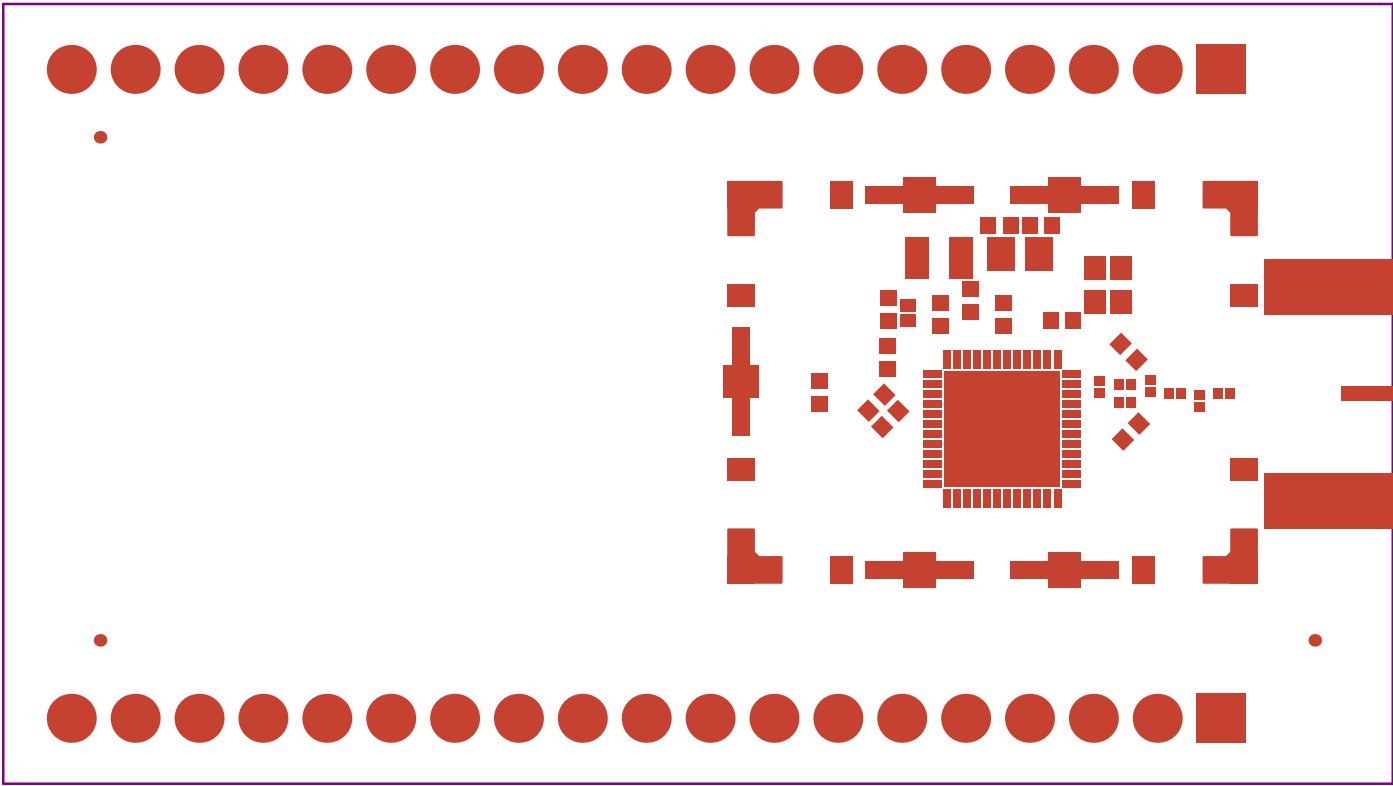
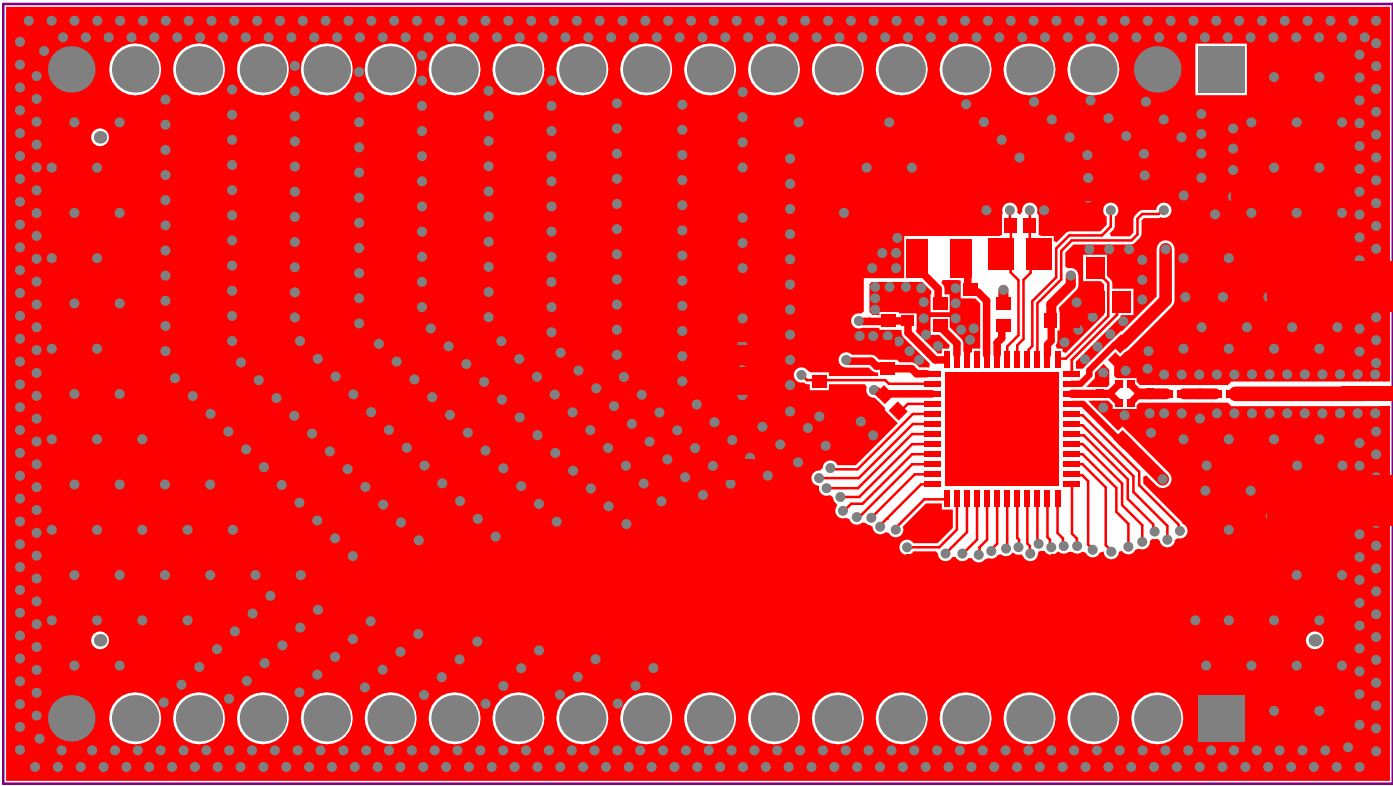




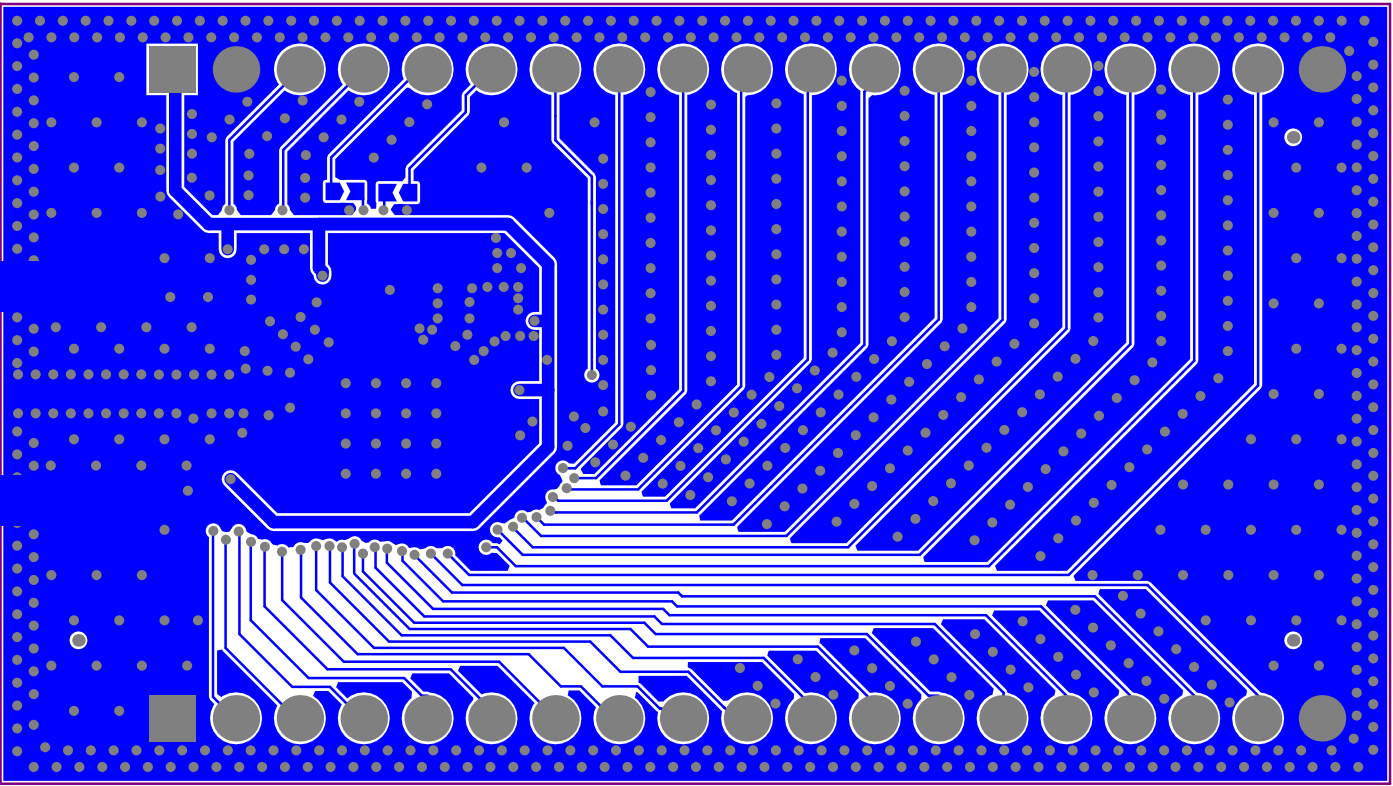
|                                 |              |                                                                                       |
|---------------------------------|--------------|---------------------------------------------------------------------------------------|
| Project: STM32WB07_QFN48_2L_SMD |              |  |
| Layer: Top Overlay              | Gerber: .GTO |                                                                                       |
| Variant: [No Variations]        | Ref: MB2173  |                                                                                       |
| Date: 7 July 2024               | Rev: A       |                                                                                       |



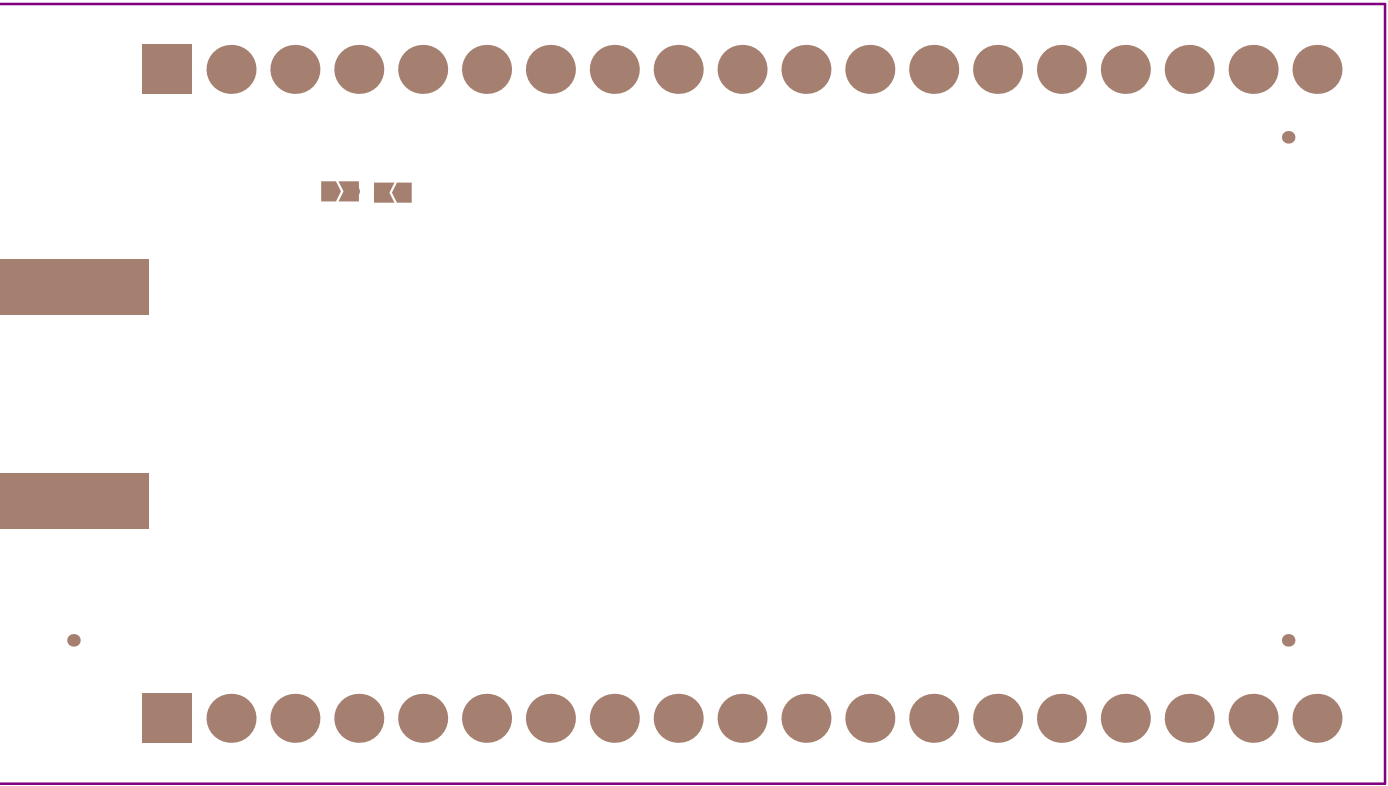
|                                 |                     |                                                                                       |
|---------------------------------|---------------------|---------------------------------------------------------------------------------------|
| Project: STM32WB07_QFN48_2L_SMD |                     |  |
| Layer: <b>Top Solder</b>        | Gerber: <b>.GTS</b> |                                                                                       |
| Variant: [No Variations]        | Ref: MB2173         |                                                                                       |
| Date: 7 July 2024               | Rev: A              |                                                                                       |



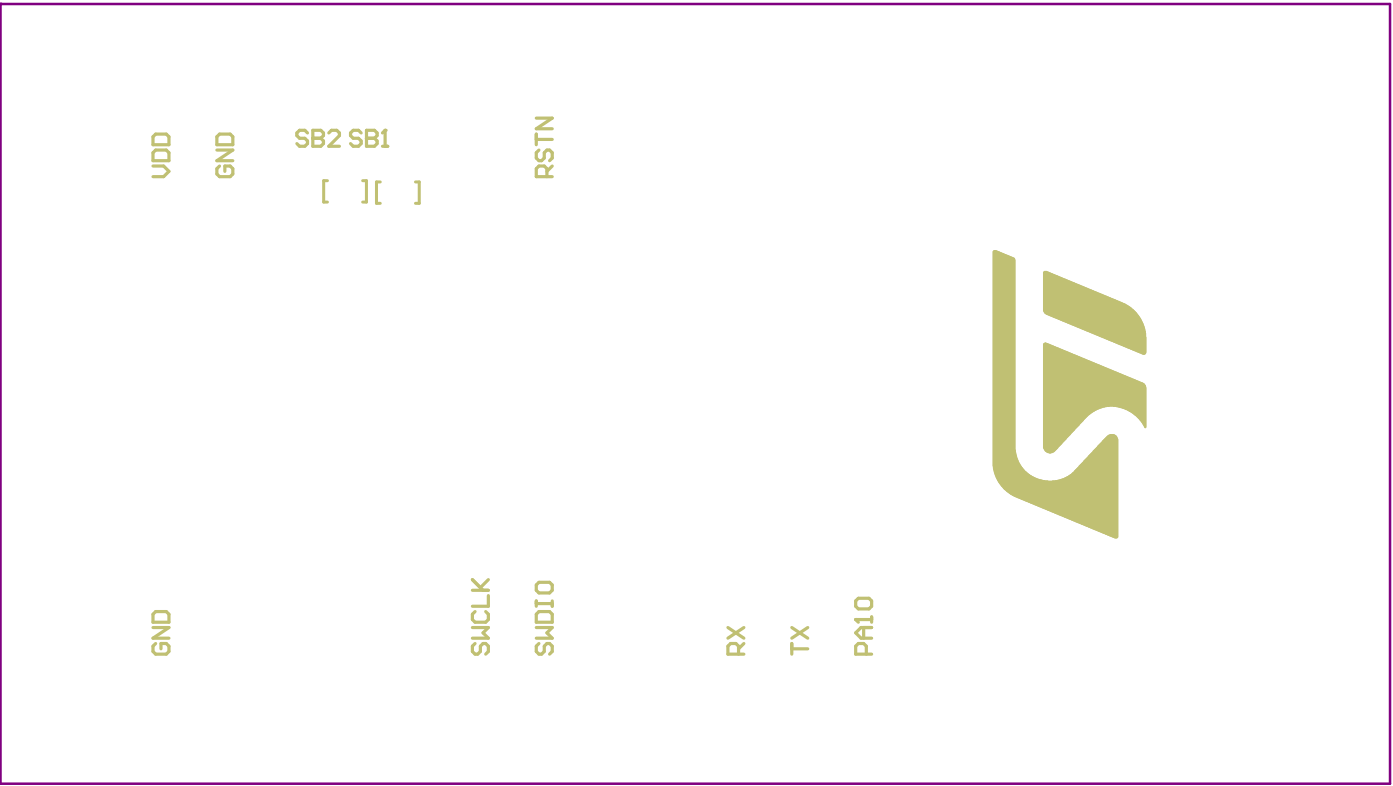
|                                 |                     |                                                                                       |
|---------------------------------|---------------------|---------------------------------------------------------------------------------------|
| Project: STM32WB07_QFN48_2L_SMD |                     |  |
| Layer: <b>Top Layer</b>         | Gerber: <b>.GTL</b> |                                                                                       |
| Variant: [No Variations]        | Ref: MB2173         |                                                                                       |
| Date: 7 July 2024               | Rev: A              |                                                                                       |



|                                 |              |                                                                                       |
|---------------------------------|--------------|---------------------------------------------------------------------------------------|
| Project: STM32WB07_QFN48_2L_SMD |              |  |
| Layer: Bottom Layer             | Gerber: .GBL |                                                                                       |
| Variant: [No Variations]        | Ref: MB2173  |                                                                                       |
| Date: 7 July 2024               | Rev: A       |                                                                                       |



|                                 |              |                                                                                       |
|---------------------------------|--------------|---------------------------------------------------------------------------------------|
| Project: STM32WB07_QFN48_2L_SMD |              |  |
| Layer: Bottom Solder            | Gerber: .GBS |                                                                                       |
| Variant: [No Variations]        | Ref: MB2173  |                                                                                       |
| Date: 7 July 2024               | Rev: A       |                                                                                       |



|                                 |              |                                                                                       |
|---------------------------------|--------------|---------------------------------------------------------------------------------------|
| Project: STM32WB07_QFN48_2L_SMD |              |  |
| Layer: Bottom Overlay           | Gerber: .GBO |                                                                                       |
| Variant: [No Variations]        | Ref: MB2173  |                                                                                       |
| Date: 7 July 2024               | Rev: A       |                                                                                       |

| Symbol | Count     | Hole Size          | Plated | Hole Type | Drill Layer Pair         | Via/Pad | Pad Shape | Template    |
|--------|-----------|--------------------|--------|-----------|--------------------------|---------|-----------|-------------|
| ▽      | 868       | 0.200mm (7.87mil)  | PTH    | Round     | Top Layer - Bottom Layer | Via     | Rounded   | v40h20m0mx0 |
| □      | 38        | 1.000mm (39.37mil) | PTH    | Round     | Top Layer - Bottom Layer | Pad     | Rounded   | (Mixed)     |
|        | 906 Total |                    |        |           |                          |         |           |             |

PCB SPECIFICATIONS :

A. MATERIAL :

FR-4☒TG-170☐TG-150☐TG-140

B. MATERIAL FAMILY :

N/A

C. SOLDERMASK COLOR :

☒GREEN☐BLUE☐RED☐BLACK

D. SILKSCREEN COLOR :

☒WHITE☐YELLOW☐BLACK

E. SURFACE FINISH :

☒ENIG☐IMMERSION SILVER☐IMMERSION TIN  
☐HASL☐HASL (PB-FREE)☐GOLDEN FINGER

☐IMPEDANCE CONTROL :

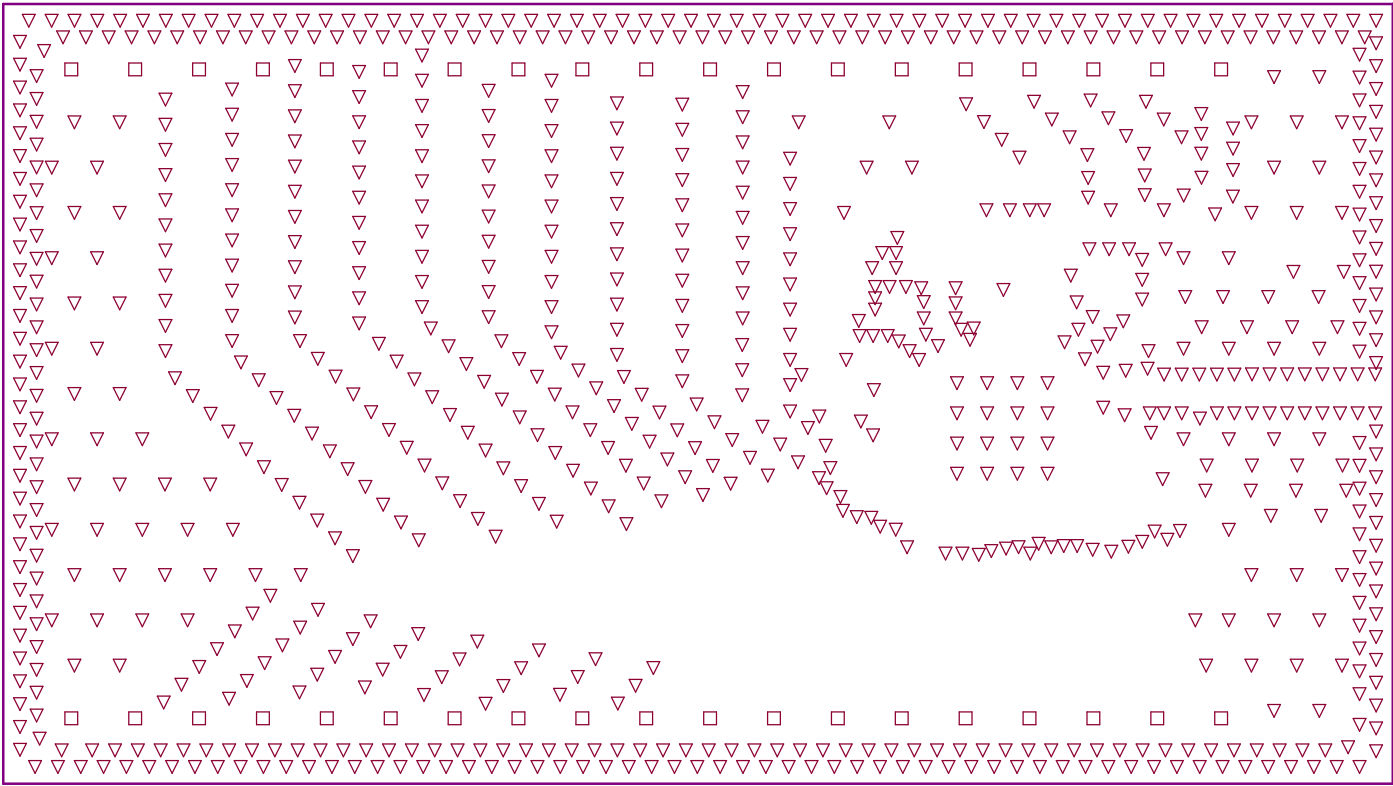
☐NO☒YES (SEE IMPEDANCE TABLE FOR DETAIL INFORMATION)

G. THROUGH VIA :

PLUG THE VIAS WHICH ARE COVERED WITH SOLDERMASK ONE OR TWO SIDE.  
PLUG MATERIAL : ☒SOLDERMASK☐NON-CONDUCTIVE EPOXY.

☐STACK-UP :

SEE LAYER STACK-UP SEQUENCE FOR OVERALL THICKNESS.



| Layer | Name           | Material          | Thickness | Constant |
|-------|----------------|-------------------|-----------|----------|
|       | Top Overlay    |                   |           |          |
|       | Top Solder     | Solder Resist     | 0.020mm   | 3.5      |
| 1     | Top Layer      |                   | 0.035mm   |          |
|       | Dielectric 1   | TU-768 (3 x 7628) | 0.533mm   | 4.6      |
| 2     | Bottom Layer   |                   | 0.035mm   |          |
|       | Bottom Solder  | Solder Resist     | 0.020mm   | 3.5      |
|       | Bottom Overlay |                   |           |          |

|                                 |              |                                                                                       |
|---------------------------------|--------------|---------------------------------------------------------------------------------------|
| Project: STM32WB07_QFN48_2L_SMD |              |  |
| Layer: Drill Drawing            | Gerber: .DRL |                                                                                       |
| Variant: [No Variations]        | Ref: MB2173  |                                                                                       |
| Date: 7 July 2024               | Rev: A       |                                                                                       |

| IMPEDANCE TABLE |            |              |                          |                          |         |
|-----------------|------------|--------------|--------------------------|--------------------------|---------|
| LAYER           | TRACE (mm) | SPACING (mm) | IMPEDANCE (Single ended) | IMPEDANCE (Differential) | TOL.    |
| TOP             | 0.58       | 0.2          | 50 ohm                   | NA                       | +/- 10% |
|                 |            |              |                          |                          |         |
|                 |            |              |                          |                          |         |
|                 |            |              |                          |                          |         |