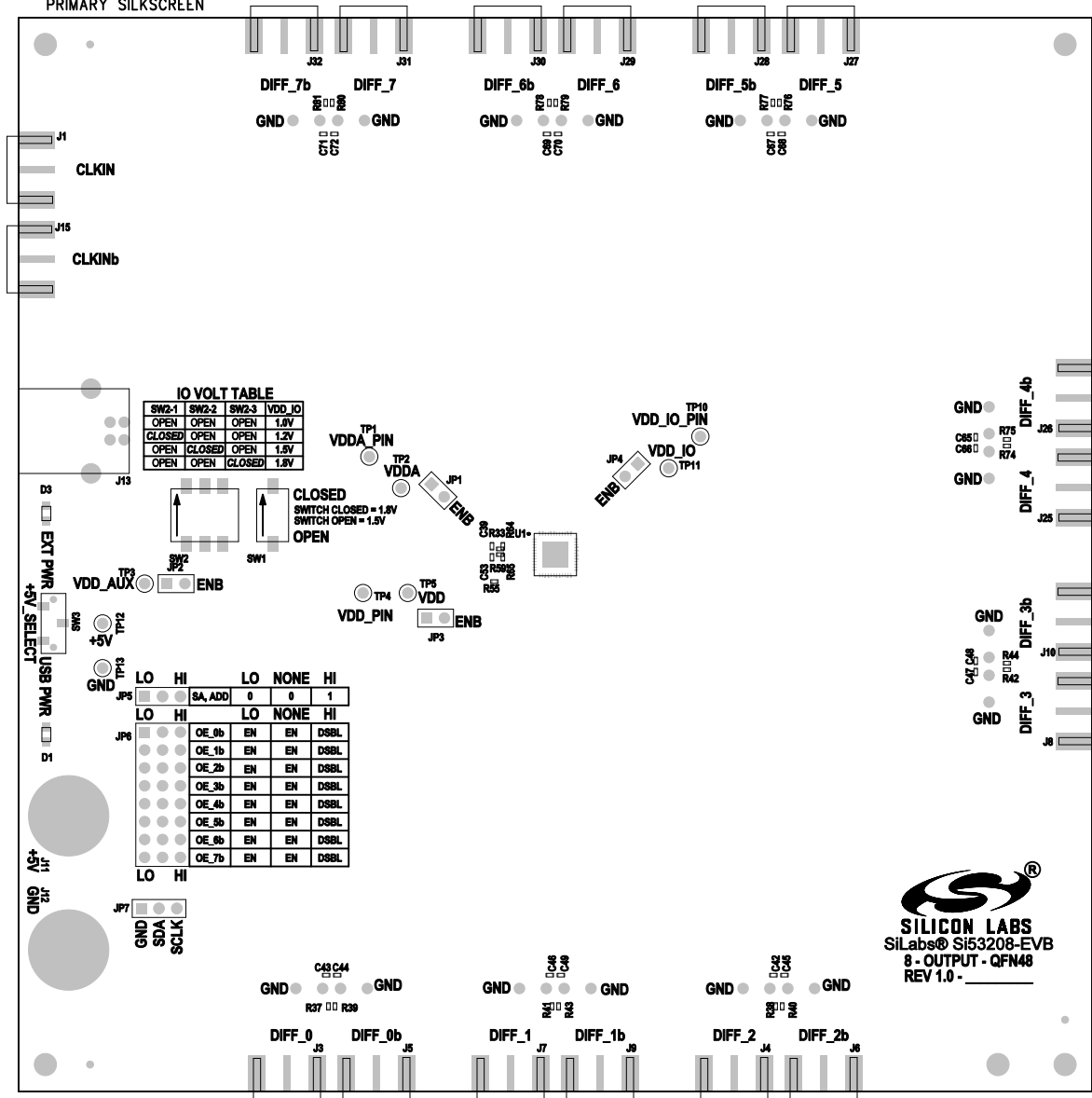
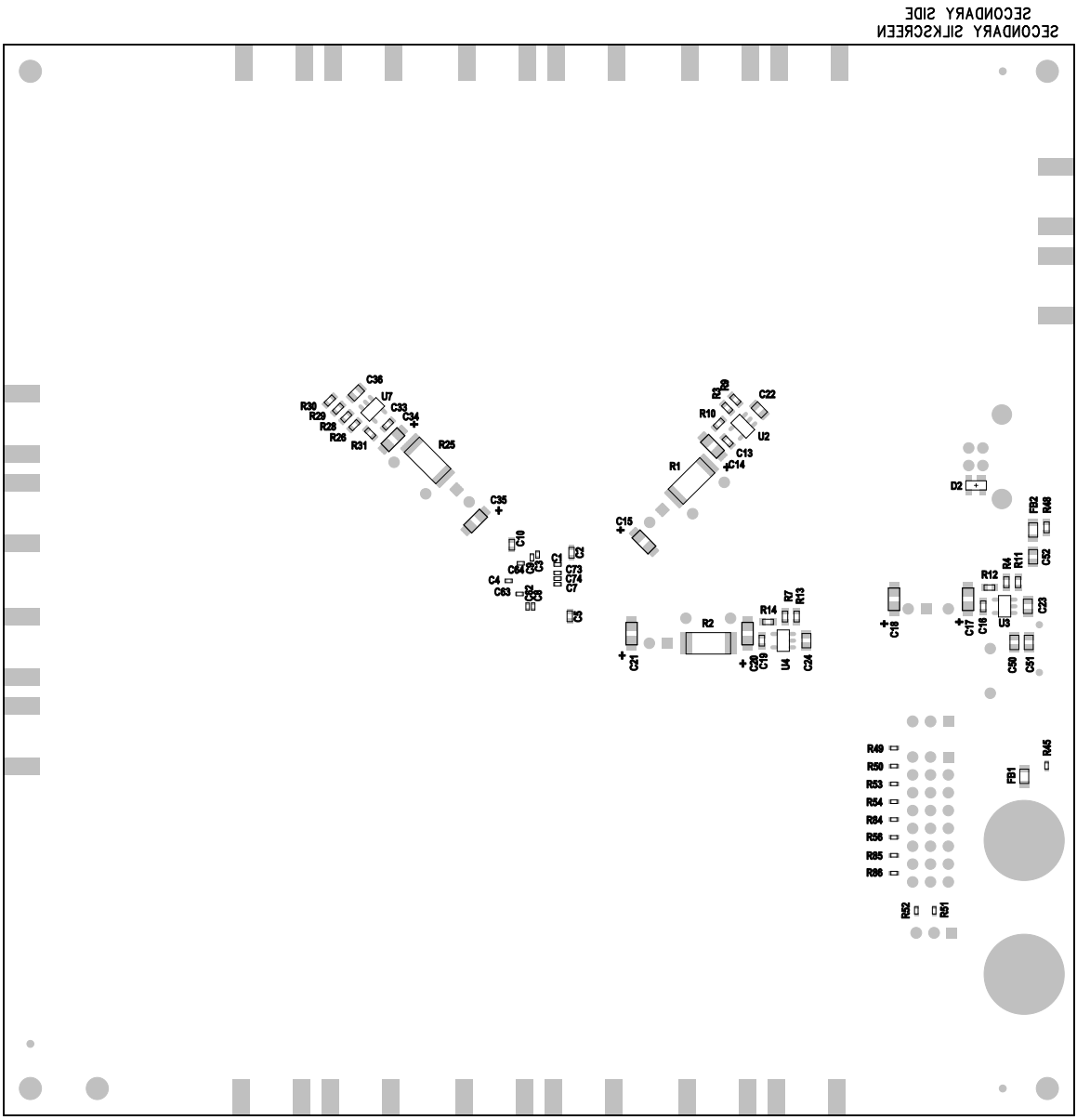


PRIMARY SIDE  
PRIMARY SILKSCREEN

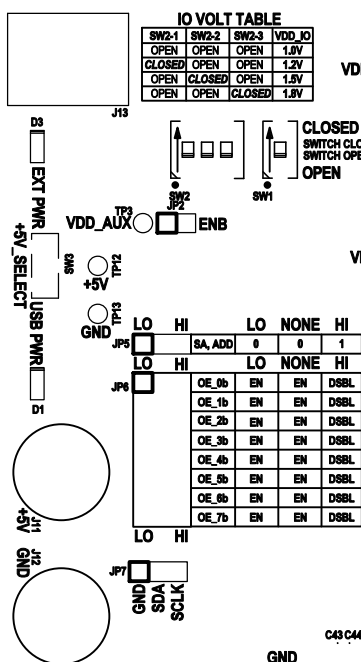
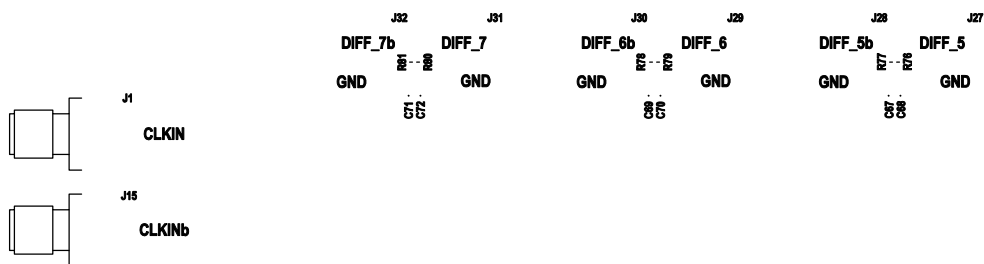


**SILICON LABS**  
SiLabs® Si53208-EVB  
8-OUTPUT - QFN48  
REV 1.0 -





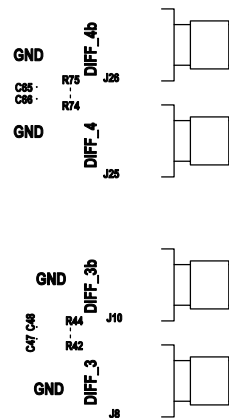
PRIMARY SILKSCREEN



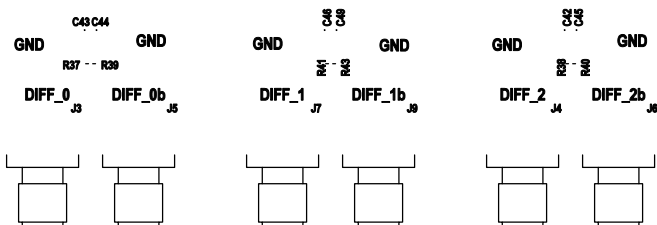
| IO VOLT TABLE |        |        |        |
|---------------|--------|--------|--------|
| SW2-1         | SW2-2  | SW2-3  | VDD_IO |
| OPEN          | OPEN   | OPEN   | 1.0V   |
| CLOSED        | OPEN   | OPEN   | 1.2V   |
| OPEN          | CLOSED | OPEN   | 1.5V   |
| OPEN          | OPEN   | CLOSED | 1.8V   |

CLOSED  
SWITCH CLOSED = 1.0V  
SWITCH OPEN = 1.5V  
OPEN

| IO VOLT TABLE |        |        |        |
|---------------|--------|--------|--------|
| SW2-1         | SW2-2  | SW2-3  | VDD_IO |
| OPEN          | OPEN   | OPEN   | 1.0V   |
| CLOSED        | OPEN   | OPEN   | 1.2V   |
| OPEN          | CLOSED | OPEN   | 1.5V   |
| OPEN          | OPEN   | CLOSED | 1.8V   |

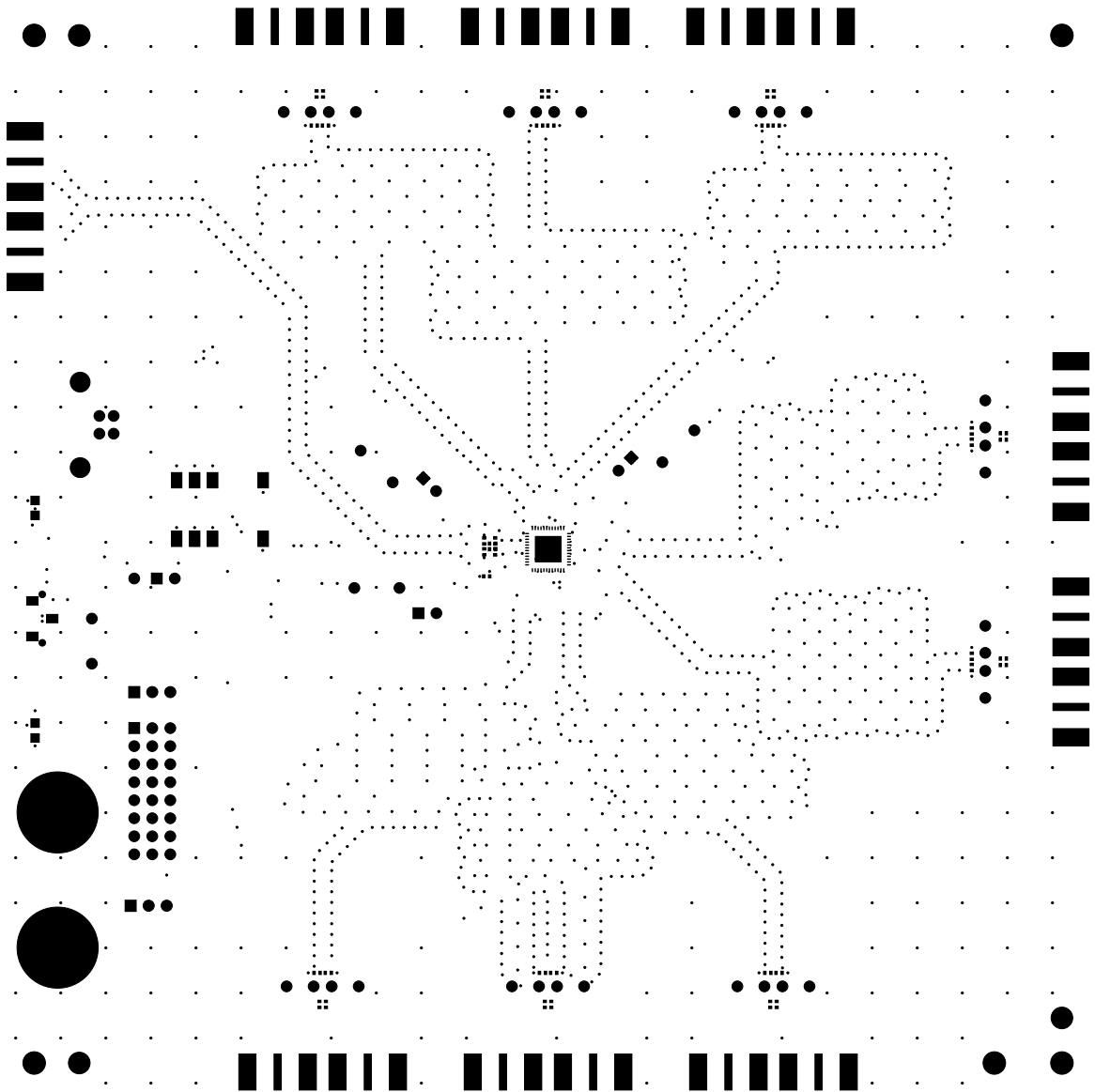


  
**SILICON LABS**  
SiLabs® Si53208-EVB  
8 - OUTPUT - QFN48  
REV 1.0 - \_\_\_\_\_

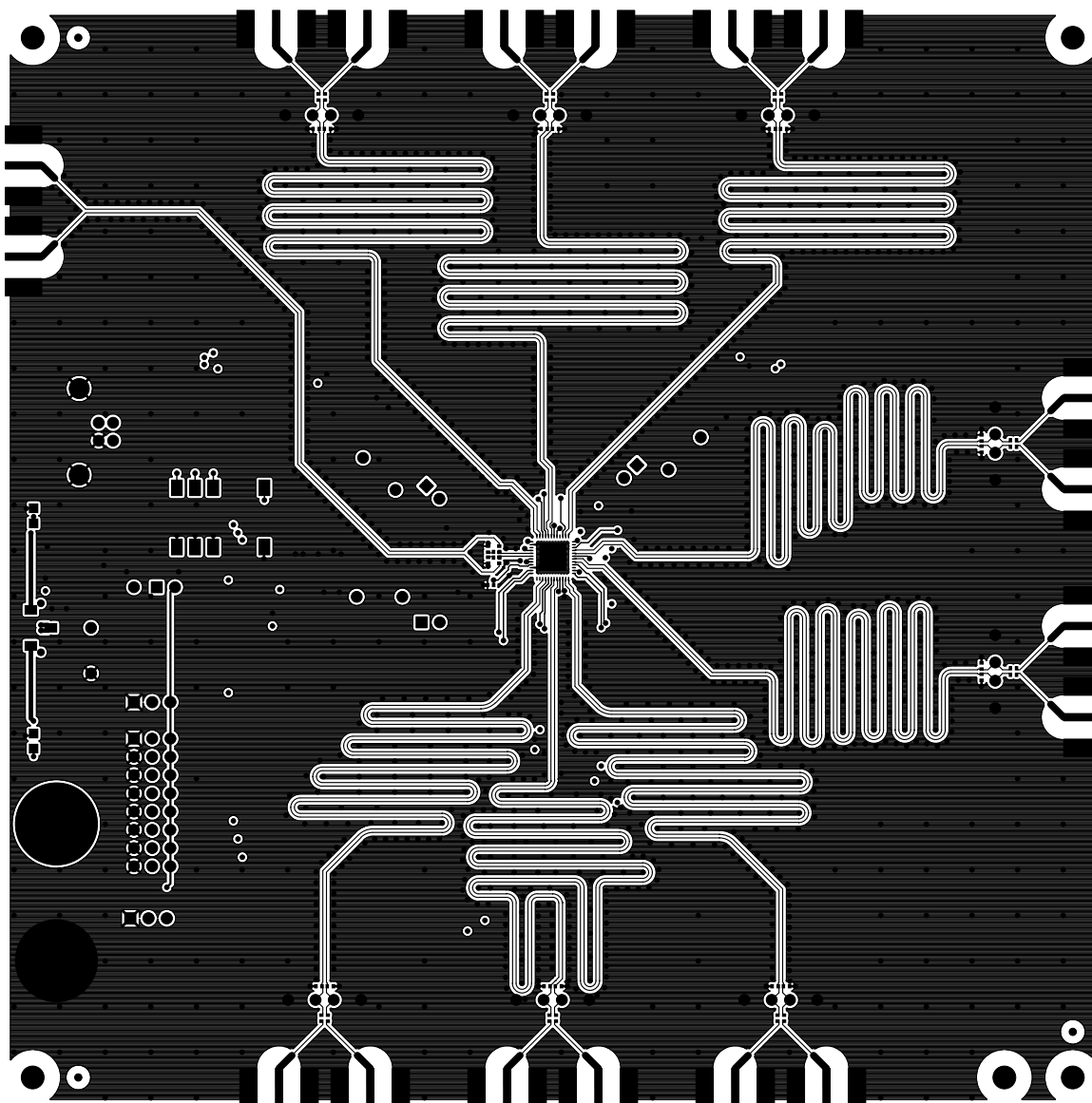




PRIMARY SOLDER MASK

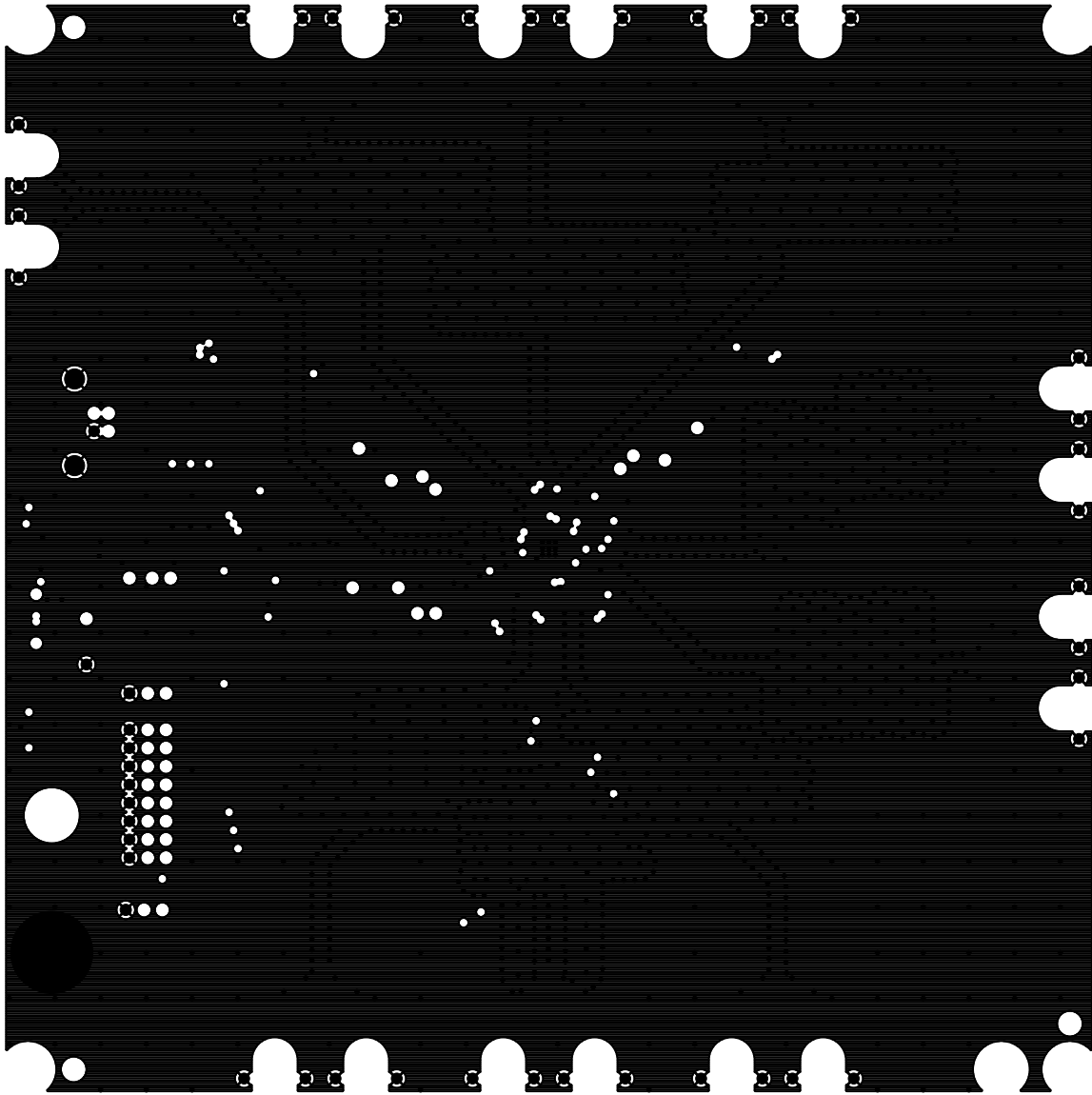


PRIMARY SIDE



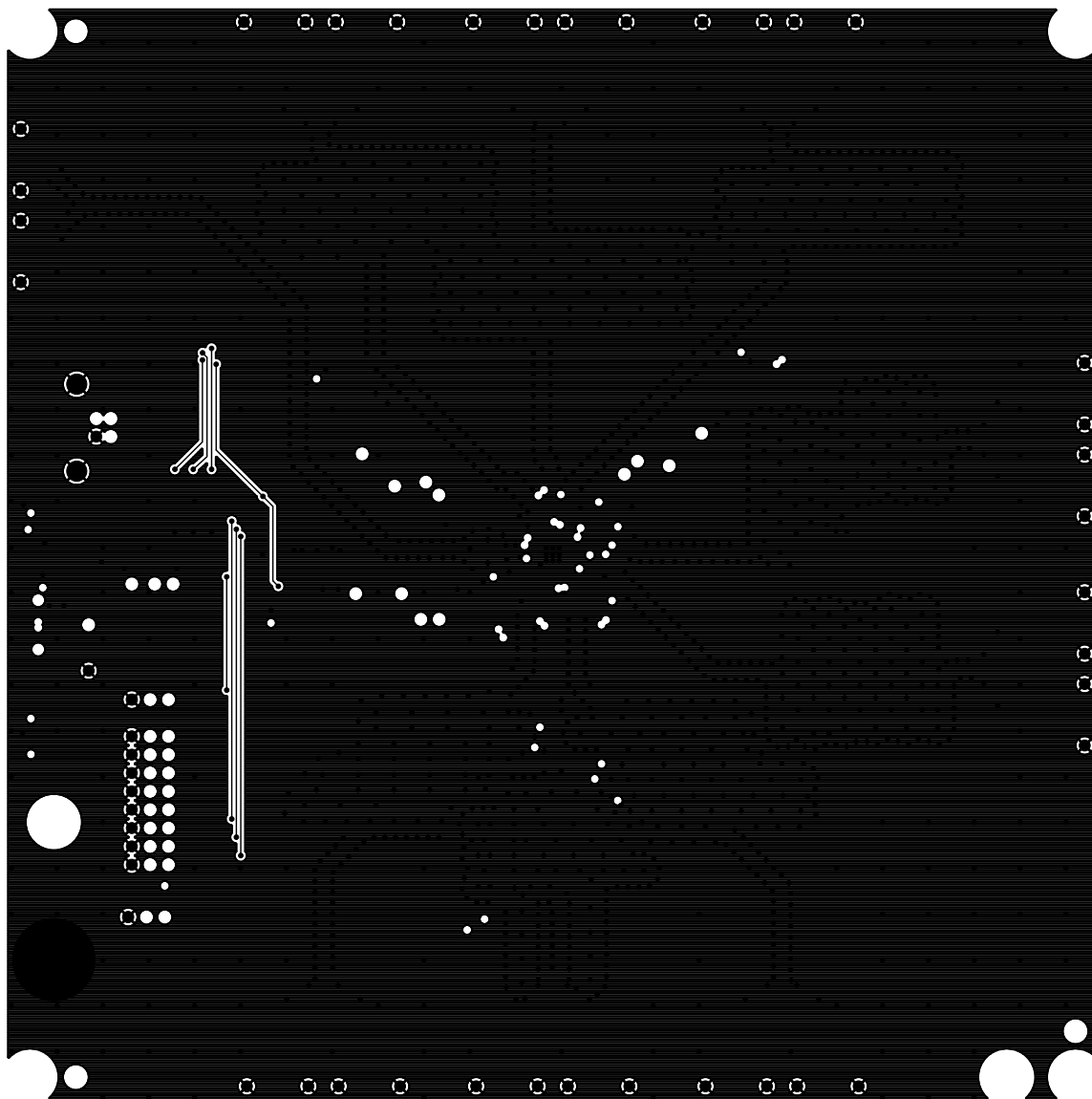


L02 (GROUND PLANE)

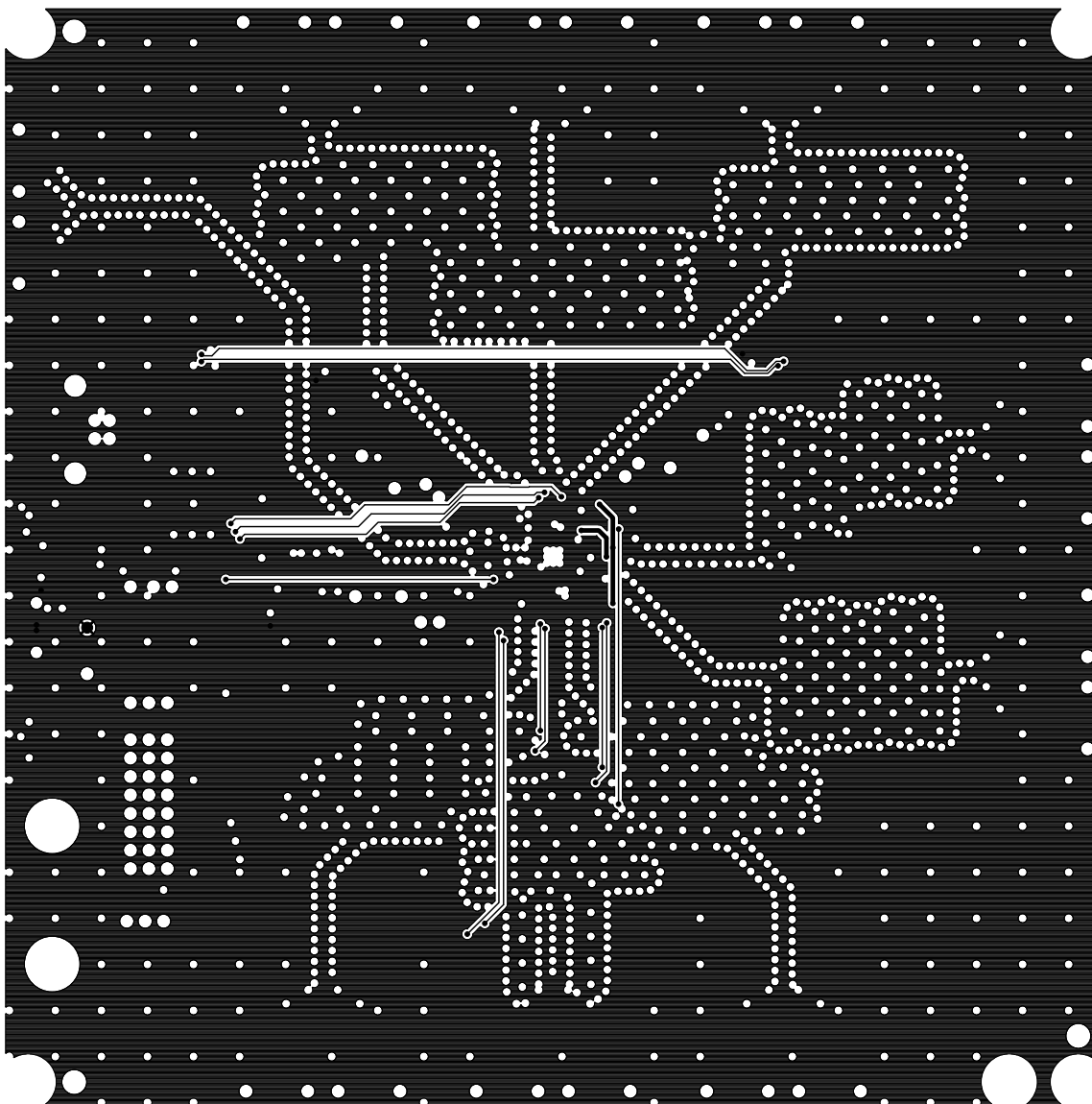




L03 (GROUND PLANE)



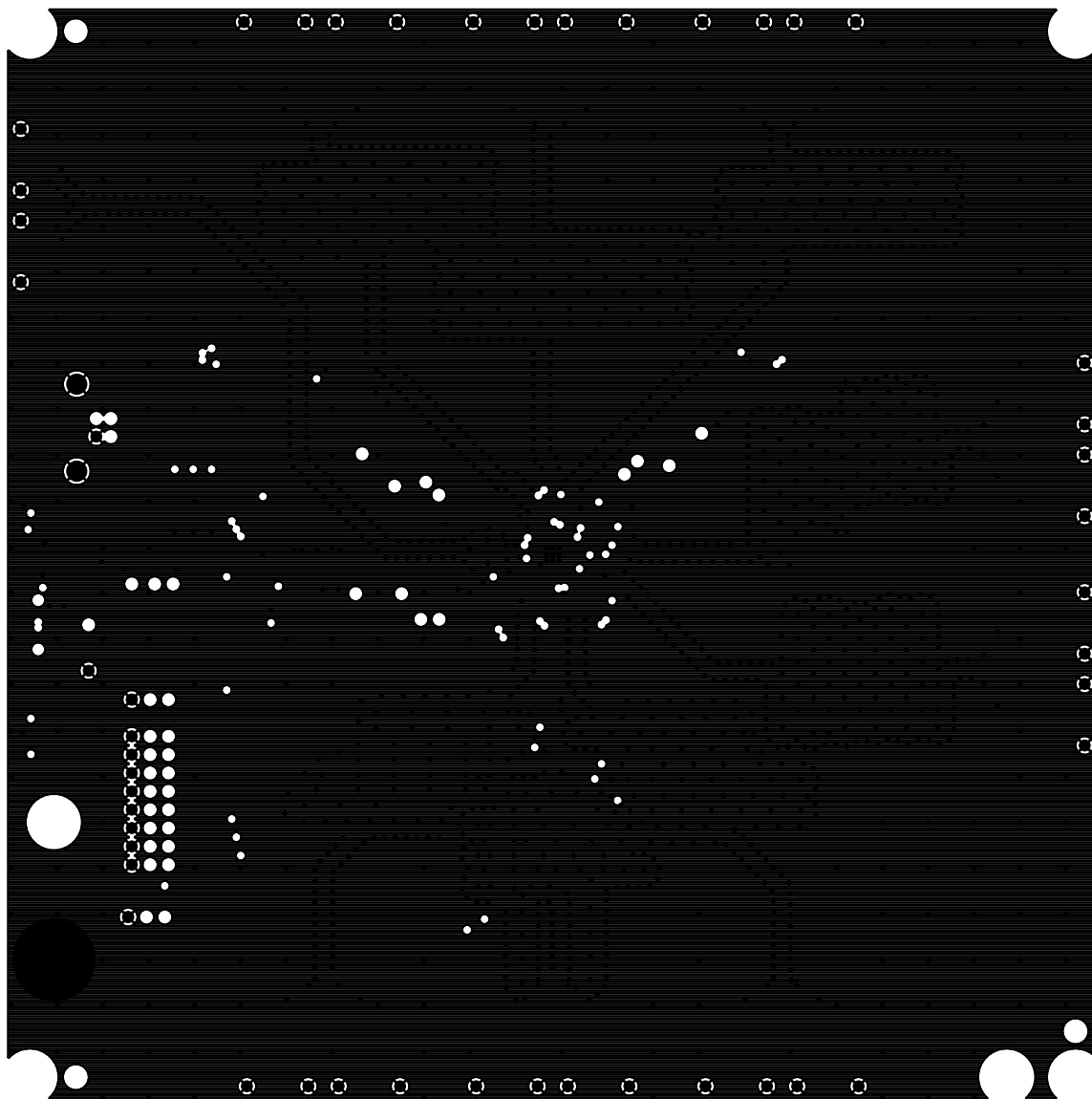
L04 (+5V/ROUTE)



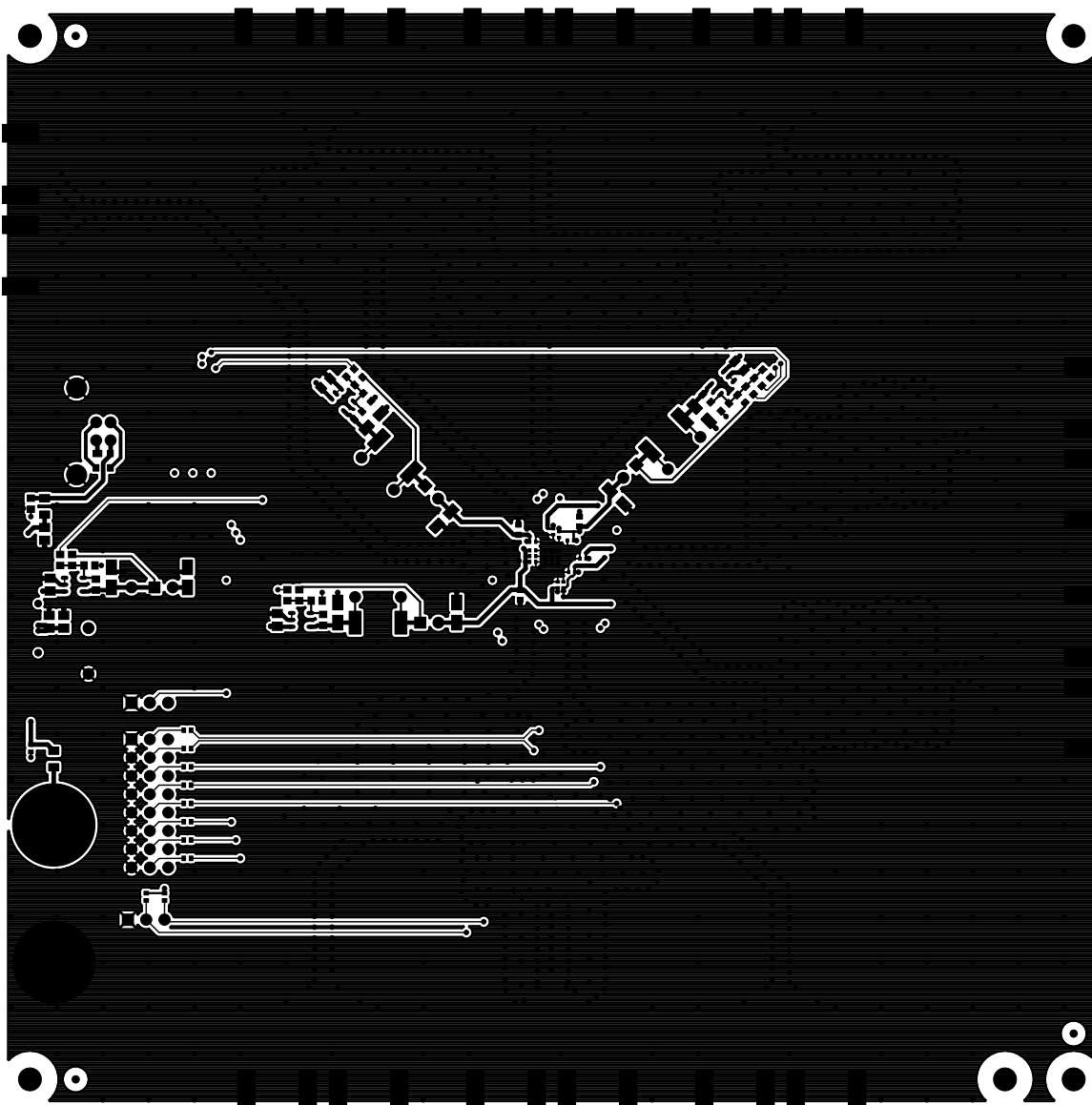




L05 (GROUND PLANE)

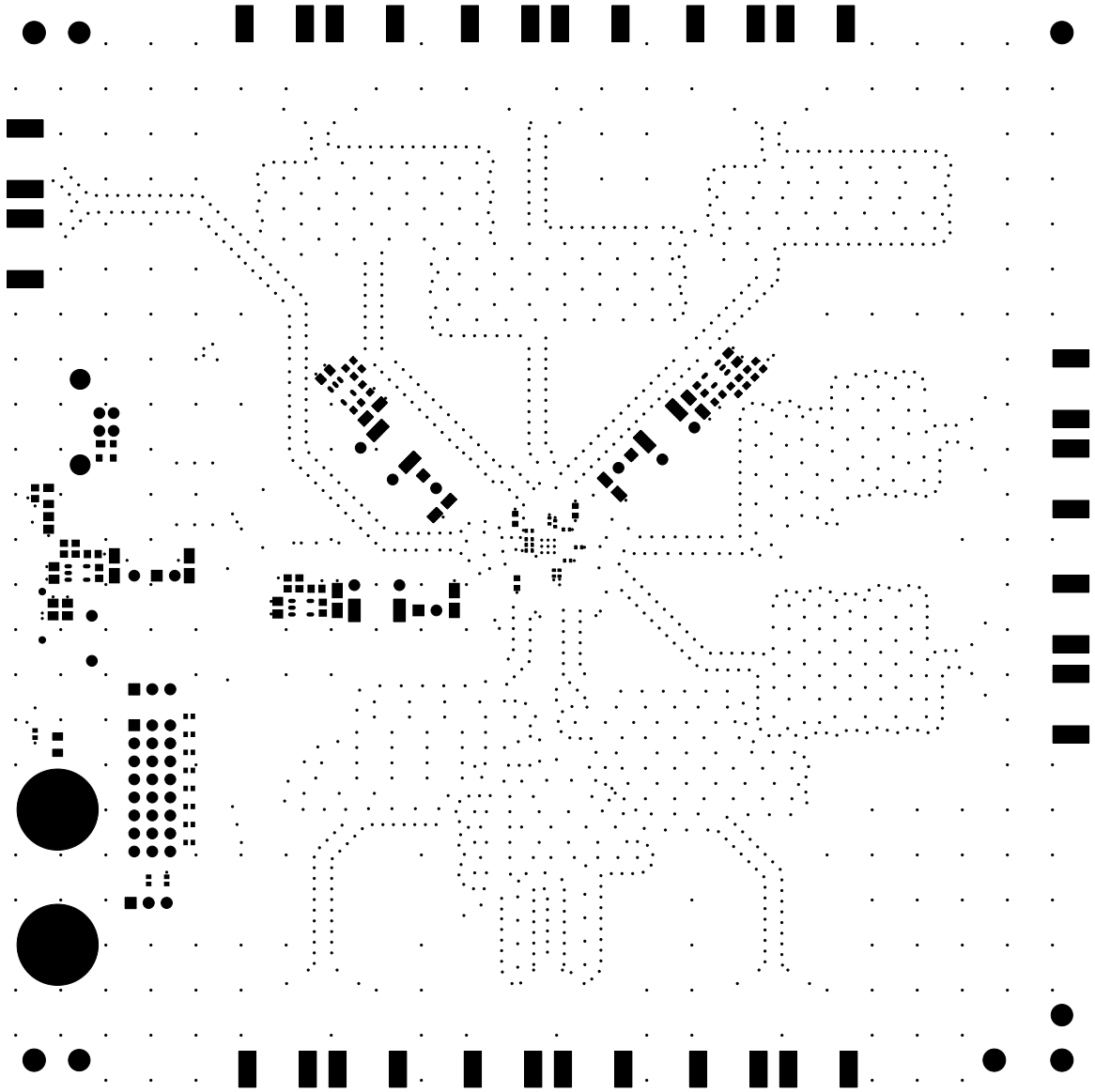


SECONDARY SIDE



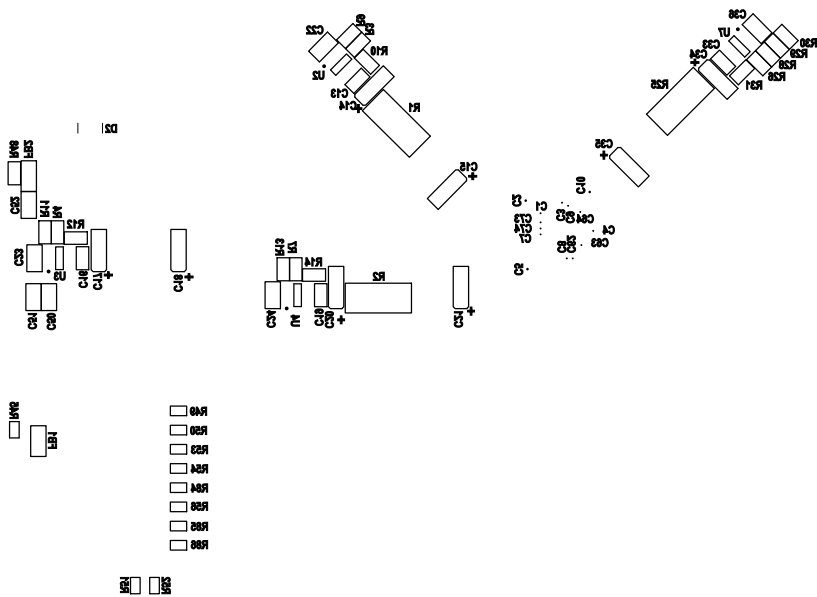


SECONDARY SOLDER MASK





SECONDARY SILKSCREEN





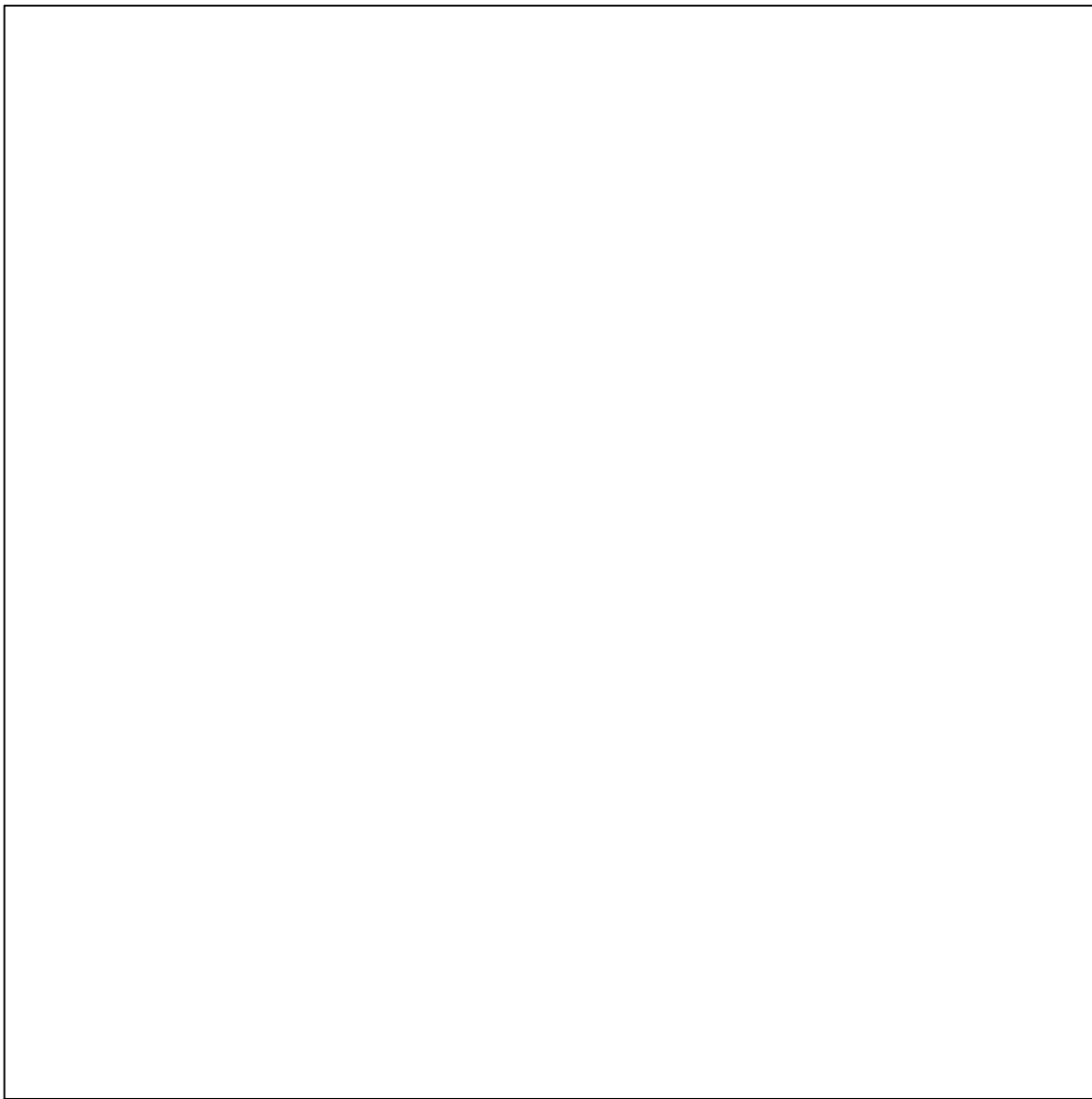
PRIMARY SOLDER PASTE

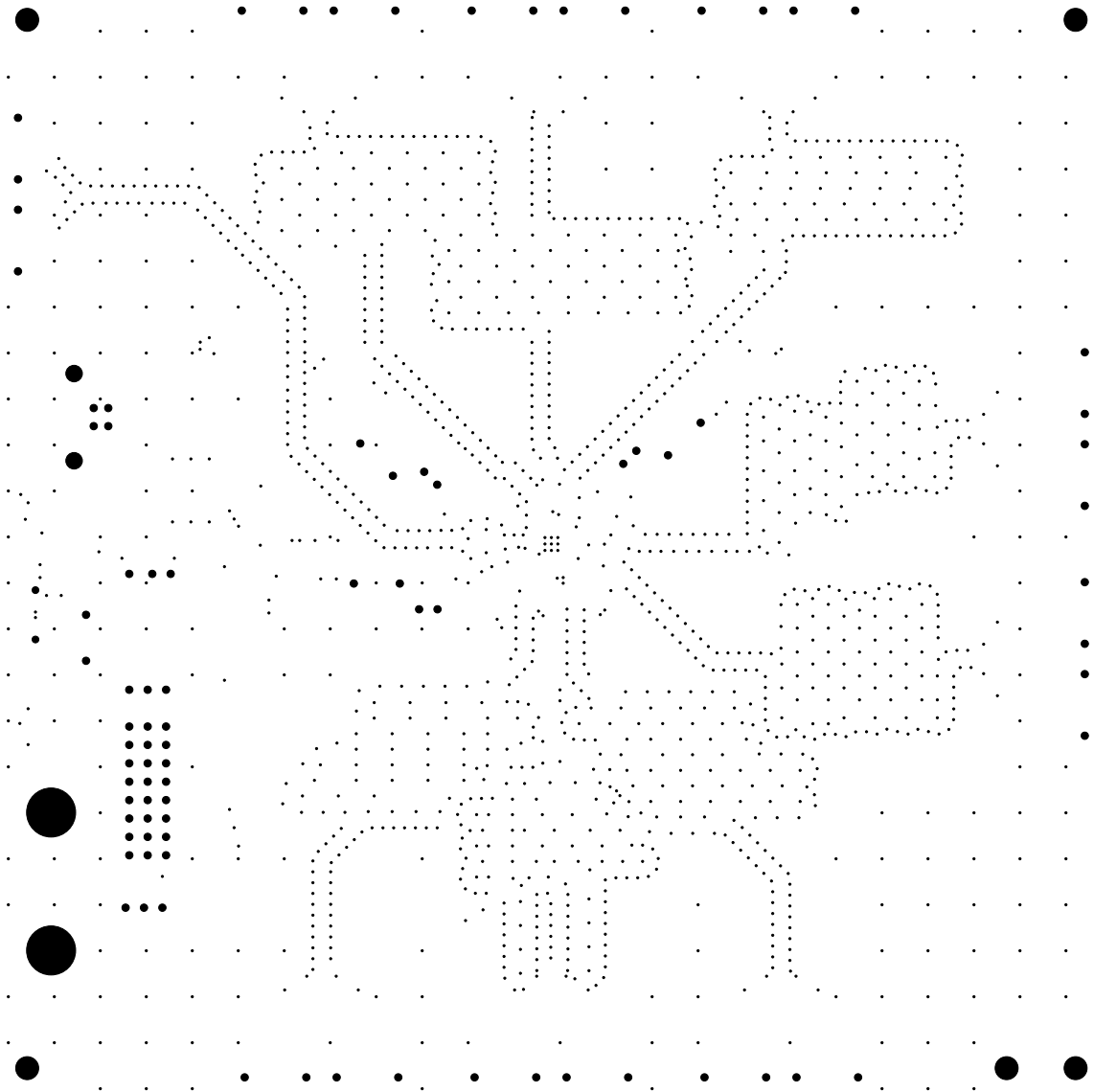




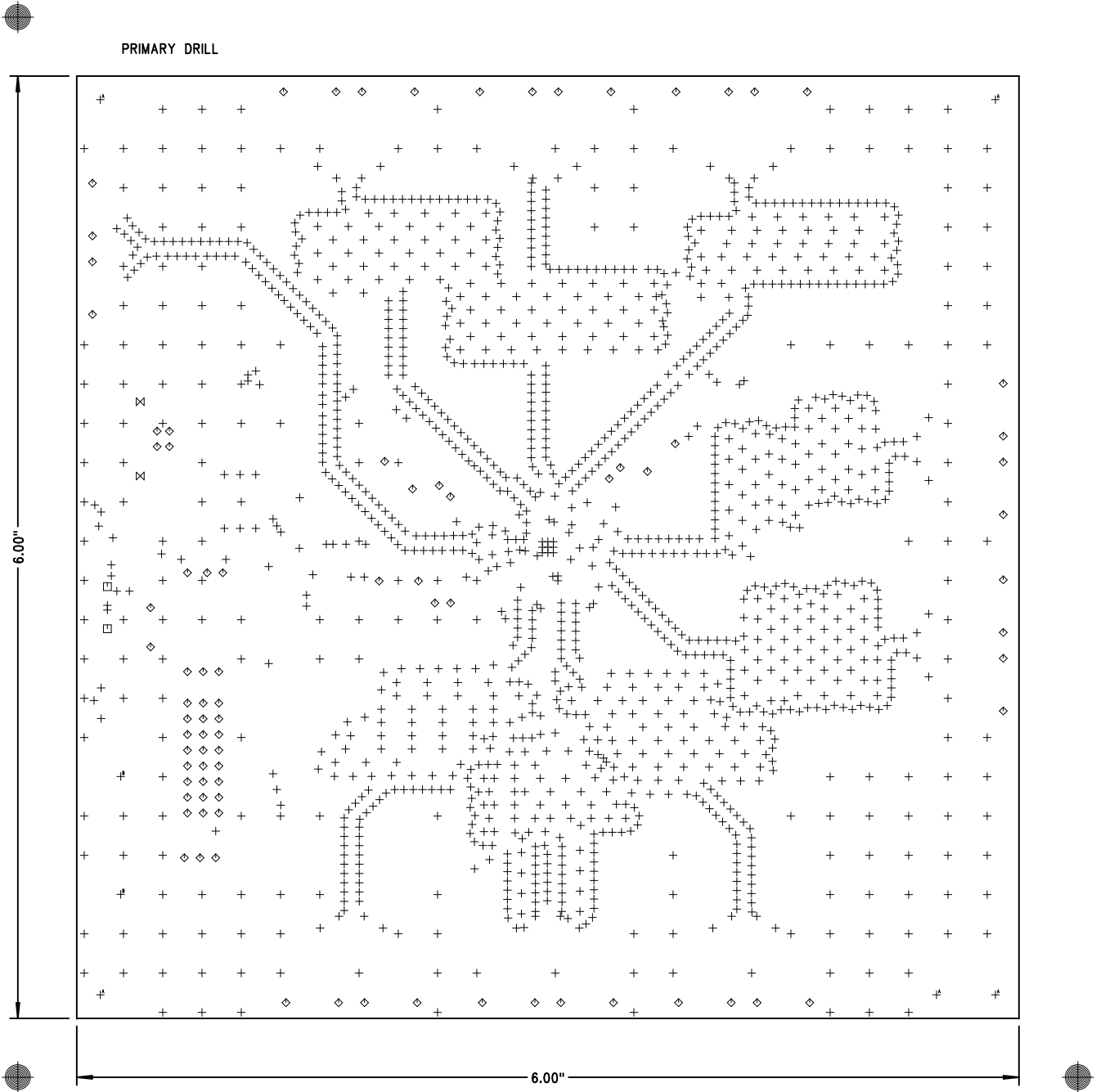
SECONDARY SOLDER PASTE











NOTES : UNLESS OTHERWISE SPECIFIED

1. MANUFACTURE IN ACCORDANCE WITH IPC-6012, TYPE 3, CLASS 2.
2. END PRODUCT FEATURES SHALL NOT VARY MORE THAN 20% FROM ARTWORK ORIGINALS.
3. LAMINATE AND PREPREG SHALL BE AS PER IPC-4101/26,83,98 WITH A DECOMPOSITION TEMPERATURE  $\geq 345^{\circ}\text{C}$ , COLOR, NATURAL.
4. COPPER WEIGHT SHALL BE 1.0 OZ./SQ. FT. BEFORE PLATING.
5. ALL PLATED THROUGH HOLES SHALL HAVE A MINIMUM OF 0.001" COPPER.
6. DRILL HOLE TOLERANCE AFTER PLATING SHALL BE  $\pm 0.003$ ".
7. MINIMUM ANNULAR RING SHALL BE 0.001".
8. MINIMUM ANNULAR RING AT EMERGENT CONDUCTORS SHALL BE 0.003".
9. FINAL PCB THICKNESS SHALL BE 0.062"  $\pm 10\%$ .
10. WARP/TWIST SHALL NOT EXCEED 1.0%
11. FINISH SHALL BE LPI, BLUE S.M.O.B.C., BALANCE ENIG.
12. SILKSCREEN WITH NONCONDUCTIVE WHITE EPOXY INK.
13. VENDOR TO PROVIDE PCB MICRO-SECTION OF COUPON AREA & TDR TEST REPORT.
14. REFERENCE ADDITIONAL FAB NOTES IN FILE README.TXT

| DO NOT AMBIG SPECIFIED GEOMETRIES WITHOUT NOTIFICATION |                       |                           |                        |                           |                        |                                                  |                     |
|--------------------------------------------------------|-----------------------|---------------------------|------------------------|---------------------------|------------------------|--------------------------------------------------|---------------------|
| GERBER<br>FILENAME                                     | LAYER                 | SINGLE ENDED<br>IMPEDANCE |                        | DIFFERENTIAL<br>IMPEDANCE |                        | THICK<br>COPPER<br>WEIGHT<br>(BEFORE<br>PLATING) | THICKNESS<br>(INCH) |
|                                                        |                       | IMPEDANCE<br>(OHMS)       | TRACE<br>WIDTH<br>(MM) | IMPEDANCE<br>(OHMS)       | TRACE<br>WIDTH<br>(MM) |                                                  |                     |
| 53208-CEVB_PSS.PHO                                     | PRIMARY SILKSCREEN    |                           |                        |                           |                        |                                                  |                     |
| 53208-CEVB_PSM.PHO                                     | PRIMARY SOLDER MASK   |                           |                        |                           |                        |                                                  |                     |
| 53208-CEVB_PRL.PHO L01                                 | PRIMARY (Signal)      |                           | 50                     | 0.15                      | 100                    | 0.15 0.35 0.5 oz                                 | 3.74MIL             |
| 53208-CEVB_L02.PHO L02                                 | PLANE (END)           | 370HR                     |                        |                           |                        | 1.0 oz                                           | 14.00MIL            |
| 53208-CEVB_L03.PHO L03                                 | PLANE (END)           | 370HR                     |                        |                           |                        | 1.0 oz                                           | 17.16MIL            |
| 53208-CEVB_L04.PHO L04                                 | PLANE (+SV/ROUTE)     | 370HR                     |                        |                           |                        | 1.0 oz                                           | 14.00MIL            |
| 53208-CEVB_L05.PHO L05                                 | PLANE (END)           | 370HR                     |                        |                           |                        | 1.0 oz                                           | 3.74MIL             |
| 53208-CEVB_SEC.PHO L06                                 | SECONDARY (Signal)    |                           |                        |                           |                        | 0.5 oz                                           |                     |
| 53208-CEVB_SSM.PHO                                     | SECONDARY SOLDER MASK |                           |                        |                           |                        |                                                  |                     |
| 53208-CEVB_SSS.PHO                                     | SECONDARY SILKSCREEN  |                           |                        |                           |                        |                                                  |                     |

| SIZE  | QTY  | SYM | PLT | TOOL | TOL       |
|-------|------|-----|-----|------|-----------|
| 0.012 | 1551 | +   | P   | 1    | +0/-0.012 |
| 0.034 | 2    | ×   | N   | 2    | +/-0.003  |
| 0.036 | 2    | □   | N   | 3    | +/-0.003  |
| 0.040 | 87   | ◇   | P   | 4    | +/-0.003  |
| 0.064 | 4    | ⊗   | N   | 5    | +/-0.003  |
| 0.091 | 2    | ⊠   | P   | 6    | +/-0.003  |
| 0.125 | 7    | A   | N   | 7    | +/-0.003  |
| 0.266 | 2    | B   | P   | 8    | +/-0.003  |

|                                                 |  |  |                                                                                                                                                                                                                                    |  |  |                                                                                                                                                                 |  |  |                      |  |  |      |  |  |              |  |  |             |  |  |   |  |  |     |  |  |                     |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|-------------------------------------------------|--|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------------------|--|--|------|--|--|--------------|--|--|-------------|--|--|---|--|--|-----|--|--|---------------------|--|--|--|--|--|--|--|--|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| UNLESS OTHERWISE SPECIFIED                      |  |  | THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION AND SHALL NOT BE DUPLICATED OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH PROVIDED OR DISCLOSED IN WHOLE OR IN PART, WITHOUT THE WRITTEN CONSENT OF SILICON LABORATORIES, INC.. |  |  | COMPANY:                                                                                                                                                        |  |  |                      |  |  |      |  |  |              |  |  |             |  |  |   |  |  |     |  |  |                     |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DIMENSIONS ARE IN INCHES AND APPLY AFTER FINISH |  |  |                                                                                                                                                                                                                                    |  |  |  400 W Cesar Chavez<br>AUSTIN, TX 78701<br>(512)416-8500<br>www.silabs.com |  |  |                      |  |  |      |  |  |              |  |  |             |  |  |   |  |  |     |  |  |                     |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| INTERPRET DRAWING PER MIL-D-1000                |  |  |                                                                                                                                                                                                                                    |  |  |                                                                                                                                                                 |  |  |                      |  |  |      |  |  |              |  |  |             |  |  |   |  |  |     |  |  |                     |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TOLERANCES                                      |  |  |                                                                                                                                                                                                                                    |  |  |                                                                                                                                                                 |  |  |                      |  |  |      |  |  |              |  |  |             |  |  |   |  |  |     |  |  |                     |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| HOLE TOLERANCES PER 78027                       |  |  | DESIGN                                                                                                                                                                                                                             |  |  | FB                                                                                                                                                              |  |  | 27JUL2017            |  |  | SIZE |  |  | PART NUMBER: |  |  | REV :       |  |  |   |  |  |     |  |  |                     |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| DECIMALS                                        |  |  | ANGLES                                                                                                                                                                                                                             |  |  | SURFACES                                                                                                                                                        |  |  | LAYOUT               |  |  | CT   |  |  | 18AUG2017    |  |  | B           |  |  | . |  |  | 1.0 |  |  |                     |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| .XX +/-                                         |  |  | +/-                                                                                                                                                                                                                                |  |  | MICROINCHES                                                                                                                                                     |  |  |                      |  |  |      |  |  |              |  |  |             |  |  |   |  |  |     |  |  |                     |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| .XXX +/-                                        |  |  |                                                                                                                                                                                                                                    |  |  |                                                                                                                                                                 |  |  |                      |  |  |      |  |  |              |  |  |             |  |  |   |  |  |     |  |  |                     |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PART TO BE FREE OF BURRS                        |  |  |                                                                                                                                                                                                                                    |  |  |                                                                                                                                                                 |  |  | DO NOT SCALE DRAWING |  |  |      |  |  |              |  |  | SCALE 1:1   |  |  |   |  |  |     |  |  | FABRICATION DRAWING |  |  |  |  |  |  |  |  | SHEET 1 OF 1 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BREAK EDGES                                     |  |  |                                                                                                                                                                                                                                    |  |  |                                                                                                                                                                 |  |  | BEND RADIUS          |  |  |      |  |  |              |  |  | BEND RELIEF |  |  |   |  |  |     |  |  |                     |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MAX                                             |  |  |                                                                                                                                                                                                                                    |  |  |                                                                                                                                                                 |  |  | MAX                  |  |  |      |  |  |              |  |  | MAX         |  |  |   |  |  |     |  |  |                     |  |  |  |  |  |  |  |  |              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |