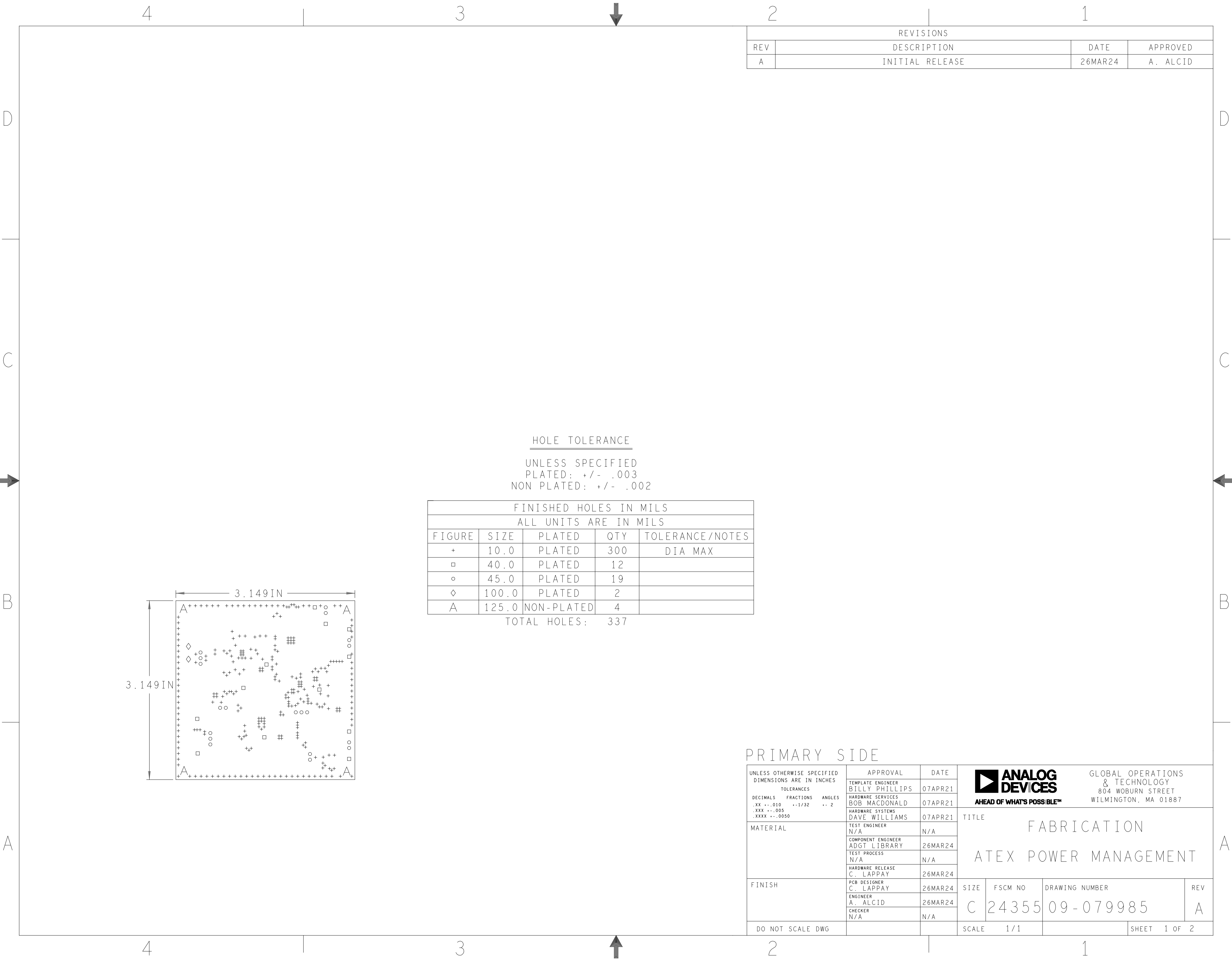


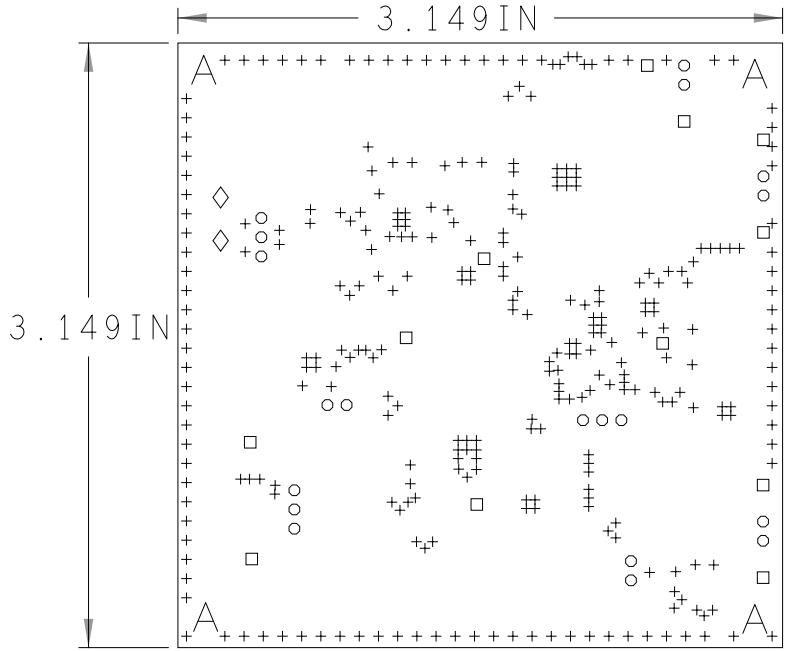


| REVISIONS |                 |         |          |
|-----------|-----------------|---------|----------|
| REV       | DESCRIPTION     | DATE    | APPROVED |
| A         | INITIAL RELEASE | 26MAR24 | A. ALCID |

HOLE TOLERANCE  
UNLESS SPECIFIED  
PLATED: +/- .003  
NON PLATED: +/- .002

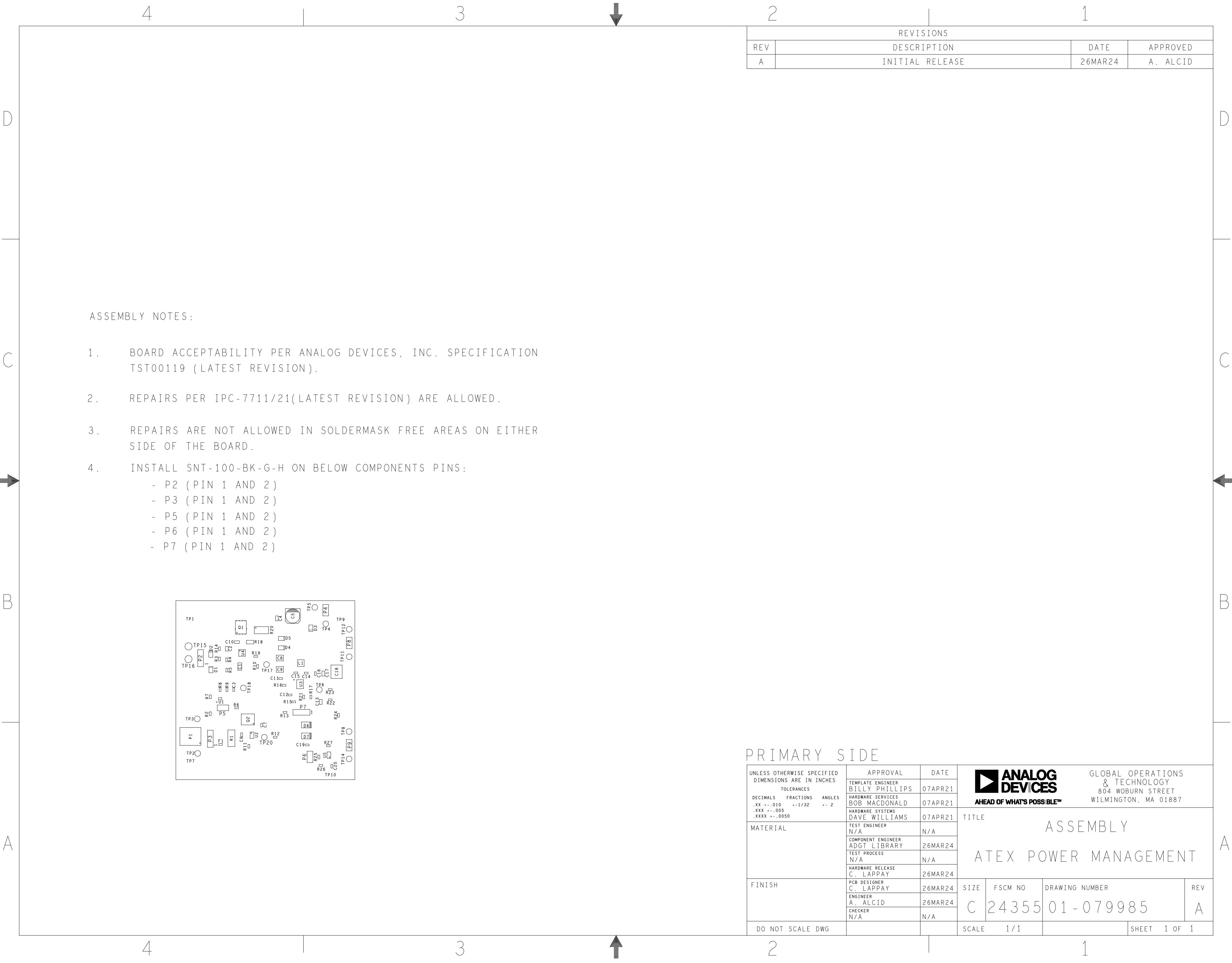
| FINISHED HOLES IN MILS |       |            |     |                 |
|------------------------|-------|------------|-----|-----------------|
| ALL UNITS ARE IN MILS  |       |            |     |                 |
| FIGURE                 | SIZE  | PLATED     | QTY | TOLERANCE/NOTES |
| +                      | 10.0  | PLATED     | 300 | DIA MAX         |
| □                      | 40.0  | PLATED     | 12  |                 |
| ○                      | 45.0  | PLATED     | 19  |                 |
| ◇                      | 100.0 | PLATED     | 2   |                 |
| A                      | 125.0 | NON-PLATED | 4   |                 |

TOTAL HOLES: 337



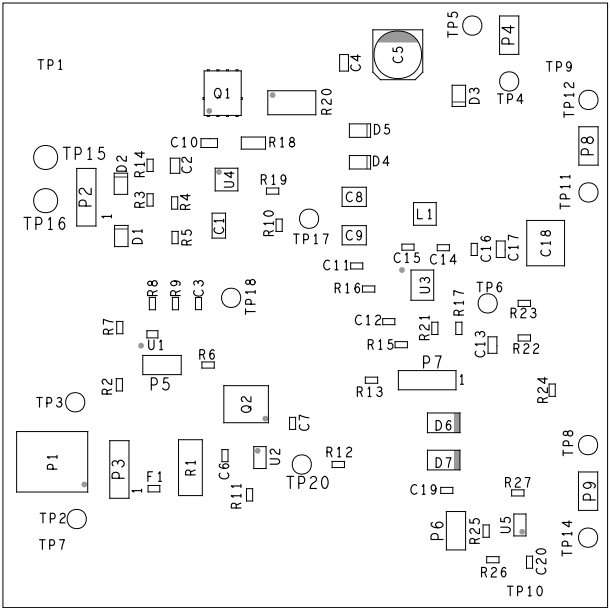
PRIMARY SIDE

|                                                                                                                                                                        |                                     |  |         |                                                                                                                                                                                                    |         |                |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------|--------------|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br>TOLERANCES<br>DECIMALS   FRACTIONS   ANGLES<br>.XX   -.010   --1/32   -- 2<br>.XXX   -.005<br>.XXXX   -.0050 | APPROVAL                            |  | DATE    | <div><div><div></div><div>ANALOG<br/>DEVICES</div><div>AHEAD OF WHAT'S POSSIBLE™</div></div><div>GLOBAL OPERATIONS<br/>&amp; TECHNOLOGY<br/>804 WOBURN STREET<br/>WILMINGTON, MA 01887</div></div> |         |                |              |
|                                                                                                                                                                        | TEMPLATE ENGINEER<br>BILLY PHILLIPS |  | 07APR21 |                                                                                                                                                                                                    |         |                |              |
|                                                                                                                                                                        | HARDWARE SERVICES<br>BOB MACDONALD  |  | 07APR21 |                                                                                                                                                                                                    |         |                |              |
|                                                                                                                                                                        | HARDWARE SYSTEMS<br>DAVE WILLIAMS   |  | 07APR21 |                                                                                                                                                                                                    |         |                |              |
| MATERIAL                                                                                                                                                               | TEST ENGINEER<br>N/A                |  | N/A     | TITLE<br>FABRICATION<br>ATEX POWER MANAGEMENT                                                                                                                                                      |         |                |              |
|                                                                                                                                                                        | COMPONENT ENGINEER<br>ADGT LIBRARY  |  | 26MAR24 |                                                                                                                                                                                                    |         |                |              |
|                                                                                                                                                                        | TEST PROCESS<br>N/A                 |  | N/A     |                                                                                                                                                                                                    |         |                |              |
|                                                                                                                                                                        | HARDWARE RELEASE<br>C. LAPPAY       |  | 26MAR24 |                                                                                                                                                                                                    |         |                |              |
| FINISH                                                                                                                                                                 | PCB DESIGNER<br>C. LAPPAY           |  | 26MAR24 | SIZE                                                                                                                                                                                               | FSCM NO | DRAWING NUMBER | REV          |
|                                                                                                                                                                        | ENGINEER<br>A. ALCID                |  | 26MAR24 | C                                                                                                                                                                                                  | 24355   | 09-079985      | A            |
|                                                                                                                                                                        | CHECKER<br>N/A                      |  | N/A     |                                                                                                                                                                                                    |         |                |              |
|                                                                                                                                                                        | DO NOT SCALE DWG                    |  |         | SCALE                                                                                                                                                                                              | 1/1     |                | SHEET 1 OF 2 |



ASSEMBLY NOTES:

- 1. BOARD ACCEPTABILITY PER ANALOG DEVICES, INC. SPECIFICATION TST00119 (LATEST REVISION).
- 2. REPAIRS PER IPC-7711/21(LATEST REVISION) ARE ALLOWED.
- 3. REPAIRS ARE NOT ALLOWED IN SOLDERMASK FREE AREAS ON EITHER SIDE OF THE BOARD.
- 4. INSTALL SNT-100-BK-G-H ON BELOW COMPONENTS PINS:
  - P2 (PIN 1 AND 2)
  - P3 (PIN 1 AND 2)
  - P5 (PIN 1 AND 2)
  - P6 (PIN 1 AND 2)
  - P7 (PIN 1 AND 2)

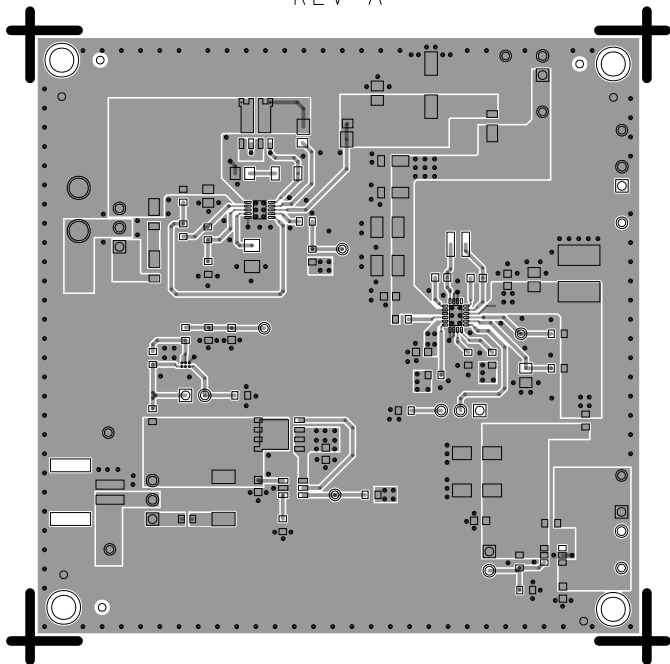


| REVISIONS |                 |         |          |
|-----------|-----------------|---------|----------|
| REV       | DESCRIPTION     | DATE    | APPROVED |
| A         | INITIAL RELEASE | 26MAR24 | A. ALCID |

PRIMARY SIDE

|                                                                                                                                                              |                                     |  |         |                                                                                                                                                                                                                                           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|--|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| UNLESS OTHERWISE SPECIFIED<br>DIMENSIONS ARE IN INCHES<br><br>TOLERANCES<br>DECIMALS FRACTIONS ANGLES<br>.XX -.010 --1/32 -- 2<br>.XXX -.005<br>.XXXX -.0050 | APPROVAL                            |  | DATE    | <div>GLOBAL OPERATIONS &amp; TECHNOLOGY<br/>804 WOBURN STREET<br/>WILMINGTON, MA 01887</div> <div>TITLE<br/>ASSEMBLY<br/>ATEX POWER MANAGEMENT</div> |
|                                                                                                                                                              | TEMPLATE ENGINEER<br>BILLY PHILLIPS |  | 07APR21 |                                                                                                                                                                                                                                           |
|                                                                                                                                                              | HARDWARE SERVICES<br>BOB MACDONALD  |  | 07APR21 |                                                                                                                                                                                                                                           |
|                                                                                                                                                              | HARDWARE SYSTEMS<br>DAVE WILLIAMS   |  | 07APR21 |                                                                                                                                                                                                                                           |
| MATERIAL                                                                                                                                                     | TEST ENGINEER<br>N/A                |  | N/A     | SIZE FSCM NO DRAWING NUMBER REV<br>C 24355 01-079985 A                                                                                                                                                                                    |
|                                                                                                                                                              | COMPONENT ENGINEER<br>ADGT LIBRARY  |  | 26MAR24 |                                                                                                                                                                                                                                           |
|                                                                                                                                                              | TEST PROCESS<br>N/A                 |  | N/A     |                                                                                                                                                                                                                                           |
|                                                                                                                                                              | HARDWARE RELEASE<br>C. LAPPAY       |  | 26MAR24 |                                                                                                                                                                                                                                           |
| FINISH                                                                                                                                                       | PCB DESIGNER<br>C. LAPPAY           |  | 26MAR24 | SCALE 1/1 SHEET 1 OF 1                                                                                                                                                                                                                    |
|                                                                                                                                                              | ENGINEER<br>A. ALCID                |  | 26MAR24 |                                                                                                                                                                                                                                           |
|                                                                                                                                                              | CHECKER<br>N/A                      |  | N/A     |                                                                                                                                                                                                                                           |
|                                                                                                                                                              | DO NOT SCALE DWG                    |  |         |                                                                                                                                                                                                                                           |

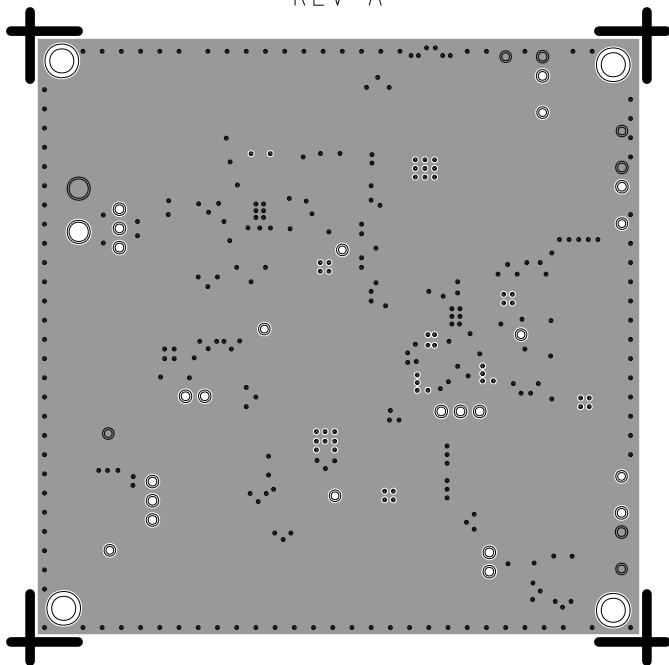
L1 PRIMARY  
08-079985 -01  
REV A



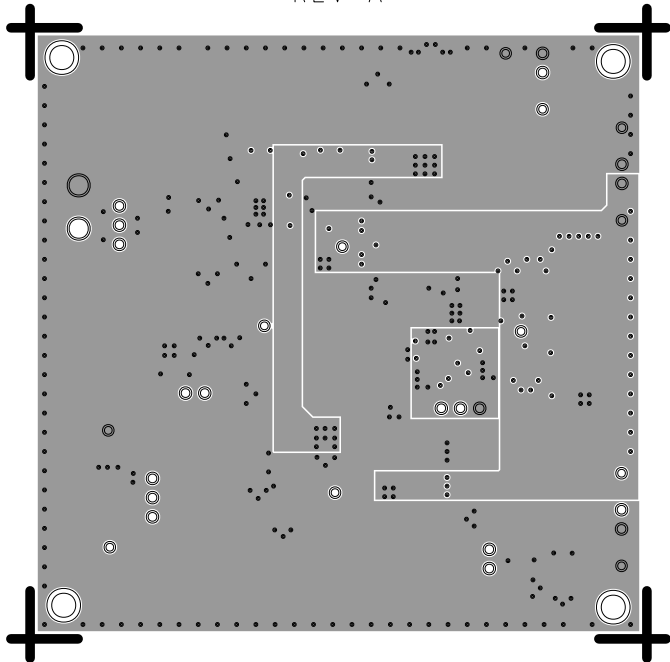
L2 GND

08-079985-04

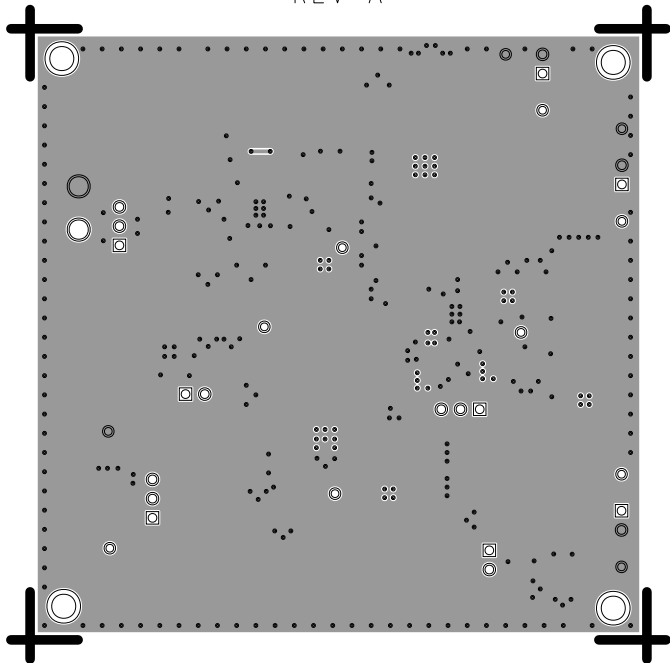
REV A



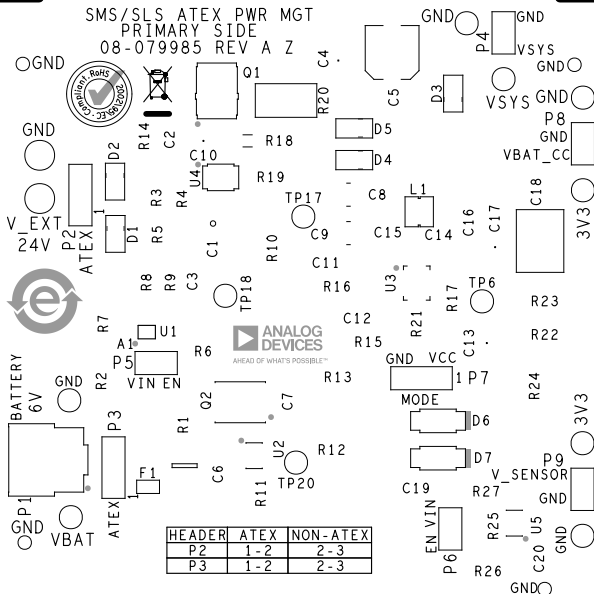
L3 POWER  
08-079985-05  
REV A



L4 SECONDARY  
08-079985-02  
REV A



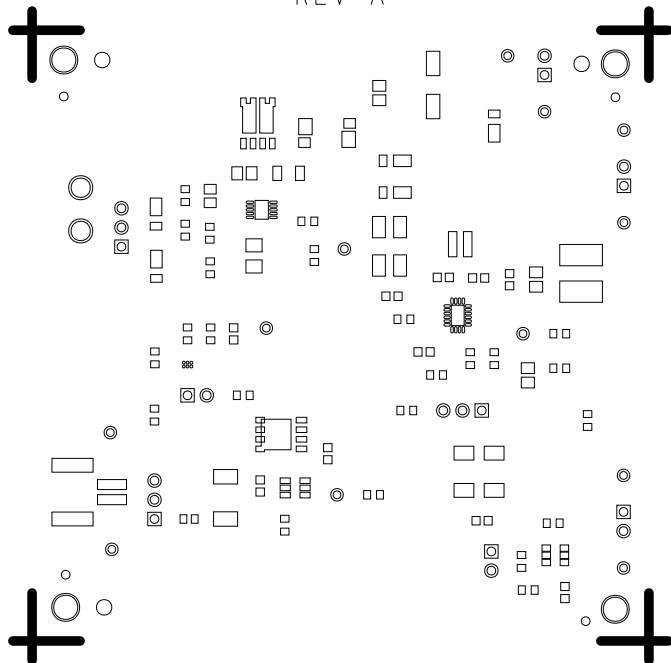
## REV A



SOLDERMASK PRIMARY

08-079985-06

REV A



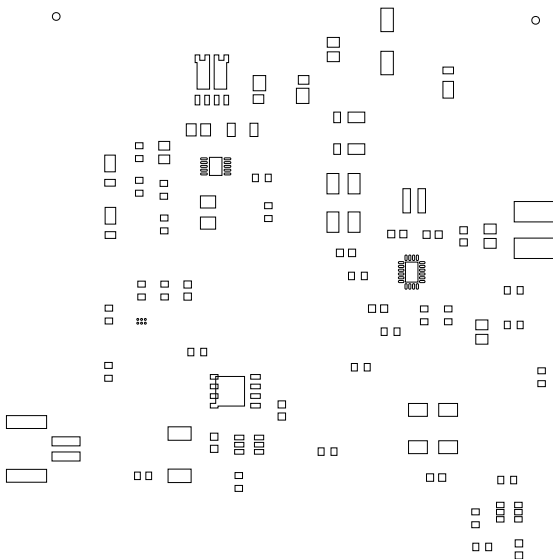
# SOLDERMASK SECONDARY

08-079985-07

REV A



PASTEMASK PRIMARY  
08-079985-08  
REV A



ALL DOCUMENTS & SPECIFICATIONS REFERRED TO BELOW SHOULD BE THE LATEST REVISIONS.

2. BOARD MATERIAL: (USE CHECKED ITEMS)

- ```

      ( X ) ISOLA 370HR OR S1000-2 OR IT180 OR EQUIVALENT
      ( ) ISOLA-FR408HR OR EQUIVALENT
      ( ) ISOLA IS410
      ( ) MEGTRON 6
      ( ) NELCO-4000-13
      ( ) ROGERS 4350B
      ( ) ROGERS 3003
      ( ) ARLON 85N
      ( ) EM370D
      ( ) OTHER _____

3. ALL LAMINATES & BONDING MATERIALS SHOULD BE SELECTED FROM IPC-4101 OR IPC-4103.(TG>170 DEG C TD>300 DEG C)
   UL FLAMMABILITY RATING 94V-0. BOARD MATERIAL & CONSTRUCTION SHALL MEET THE REQUIREMENTS OF UL796/UL796F.

4. REFER TO IPC-6010 SERIES, CLASS 2 FOR FABRICATION.

5. REFER TO LAMINATION DIAGRAM FOR OVERALL BOARD THICKNESS, TOLERANCE APPLIES AFTER ALL LAMINATION AND PLATING
   PROCESSES. FINISHED THICKNESS MEASURED FROM TOP COPPER TO BOTTOM COPPER.

6. BOW & TWIST NOT TO EXCEED 0.0075 INCHES (0.75%) PER LINEAR INCH AND SHOULD BE MEASURED PER IPC-TM-650, METHOD 2.4.22.

7. ACCEPTABILITY PER ADI SPECIFICATION TST00115.

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8. IMPEDANCE REQUIREMENTS: IF NO STACKUP IS DEFINED, THE VENDOR IS ALLOWED TO ADJUST THE DIELECTRIC THICKNESS & TRACE WIDTHS TO MEET THE IMPEDANCE REQUIREMENT. IF SPECIFIED, THE VENDOR MUST MEET THE REQUIREMENTS LISTED IN THE IMPEDANCE TABLE. ANY ADJUSTMENT MADE TO THE DEFINED STACKUP, TRACE WIDTH & SPACING THAT IMPACT THE REQUIREMENTS MUST HAVE WRITTEN APPROVAL FROM ADI.

9. FILLET OPTIONS TO ENHANCE RELIABILITY AT PAD JUNCTIONS WHERE SPACING PERMITS.  
( ) FILLETS ALLOWED  
(X) FILLETS NOT ALLOWED

10. THIEVING:  
( ) VENDOR MAY ADD THIEVING TO COMPENSATE FOR LOW COPPER DENSITY AREAS MAINTAINING A MINIMUM 0.100 INCH CLEARANCE FROM ALL COPPER FEATURES.  
( ) VENDOR MAY NOT ADD THIEVING TO COMPENSATE FOR LOW COPPER DENSITY AREAS.

11. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003 INCHES.

12. DRILL SIZES ARE FINISHED HOLE SIZES. ALL HOLES SHALL BE LOCATED WITHIN 0.005 INCHES DTP, UNLESS SPECIFIED.  
MINIMUM BARREL PLATING OF 0.001 INCHES. PLATED HOLES SHALL NOT BE ROUGH OR IRREGULAR SO AS TO  
HINDER PROPER SOLDER WICKING. BARREL RELIEF ON SOLDERMASK ALLOWED IN UNFILLED VIA IN PAD HOLES.

13. PLATING SPECIFICATION:  
(X) REFER TO LAMINATION DIAGRAM FOR FINISHED COPPER WEIGHT/THICKNESS REQUIREMENTS  
THE STARTING COPPER WEIGHT/THICKNESS CAN VARY AS LONG AS THE FINISHED COPPER  
WEIGHT/THICKNESS IS NOT LESS THAN THE SPECIFIED VALUE.

14. SURFACE FINISH:  
(X) IMMERSION GOLD (ENIG) 1.58-3.94 MICRO INCHES OVER 118-236 MICRO INCHES MIN. OF ELECTROLESS NICKEL PER IPC-4552  
( ) OSP (ORGANIC SOLDERABILITY PRESERVATIVE)  
( ) IMMERSION SILVER  
( ) SOFT WIRE BONDABLE GOLD 30-50 MICRO INCHES OF SOFT WIRE  
BONDABLE GOLD OVER 100-150 MICRO INCHES OF NICKEL  
( ) EDGE CONNECTOR FINGERS ARE TO BE PLATED WITH 100 MICRO-INCHES (.0001'') OF LOW STRESS  
NICKEL UNDER 30 MICRO-INCHES (.0003'') OF GOLD  
( ) OTHER \_\_\_\_\_

15. SOLDERMASK:  
SOLDERMASK OVER BARE COPPER OR BARE GOLD (BOTH SIDES) TO MEET IPC-SM-840.  
IF PRESENT, DO NOT MODIFY SOLDERMASK DEFINED PADS (MASK OPENINGS LESS THAN COPPER PAD) WITHOUT APPROVAL.  
(X) LPI  
( ) OTHER \_\_\_\_\_

COLOR  
(X) GREEN  
( ) OTHER \_\_\_\_\_

16. APPLY SILKSCREEN TO BOTH SIDES USING A NON-CONDUCTIVE, EPOXY BASED INK PER ARTWORK.  
(X) WHITE  
( ) OTHER

17. FINAL ELECTRICAL TEST TO BE PERFORMED USING PROVIDED IPC-D-356A NETLIST OR ODB++ FORMAT FILE. THE PCB SHALL HAVE A VERIFICATION STAMP.

18. A TIME DOMAIN REFLECTOMETER REPORT (TDR) FOR EACH IMPEDANCE CONTROLLED LAYER & A CERTIFICATE OF COMPLIANCE SHALL BE PROVIDED BY VENDOR AT TIME OF SHIPMENT. INSTANCES WHERE TDR TESTING CAN'T BE PERFORMED BECAUSE THE TRACE LENGTH IS TOO SHORT ON THE OUTER LAYERS AT THE PIN ESCAPES IS ACCEPTABLE. ALL OTHER INSTANCES MUST BE REPORTED.

19. IF PRESENT, ALL BLIND/BURIED VIAS WITH AN ASPECT RATIO <1:1 TO BE PLATED SHUT WITH COPPER WHEN USED AS VIA-IN-PAD OR AS A STACKED VIA. BLIND/BURIED VIAS WITH AN ASPECT RATIO >1:1 TO BE FILLED WITH NON-CONDUCTIVE EPOXY.

20. FOR VIA FILL INFORMATION REFER TO DRILL CHART:  
( ) NON-CONDUCTIVE EPOXY FILL ALL 0.XXXX INCHES DRILLED VIAS  
( ) COPPER FILL ALL 0.XXXX INCHES DRILLED VIAS

21. INTENTIONAL SHORTS:  
IF AN INTENTIONAL SHORT REPORT IS SUPPLIED AND DOES NOT MATCH THE FAB DATA THEN  
ADI APPROVAL IS REQUIRED.

22. PEMNUTS:  
( ) PEMNUTS TO BE INSTALLED BY FABRICATOR  
( ) PEMNUTS NOT TO BE INSTALLED BY FABRICATOR  
( ) NOT APPLICABLE

23. MANUFACTURER TO ETCH/STAMP WITH PERMANENT NON-CONDUCTIVE INK  
ON SECONDARY SIDE UNLESS OTHERWISE SPECIFIED:  
A. UL CODE-FLAMMABILITY RATING FOR THOSE APPROVED MATERIALS(IF APPLICABLE)  
B. DATE CODE  
C. LOT NUMBER  
D. MANUFACTURER LOGO

24. BOARDS TO BE SHIPPED IN SINGULATED AFTER FABRICATION PROCESS  
SMOOTHEN EDGES AND FREE FROM BURRS AFTER DEPANELIZATION

25. MINIMUM DESIGN LINE WIDTH IS 0.010 INCH.

26. MINIMUM DESIGN LINE SPACING IS 0.080 INCH.

FAB NOTES REVISION: 2ND NOVEMBER 2022

WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2.

| LAMINATION DIAGRAM |            |                             |                             |                                    |
|--------------------|------------|-----------------------------|-----------------------------|------------------------------------|
| LAYER NUMBER       | LAYER NAME | COPPER THICKNESS (OZ, INCH) | DIELECTRIC THICKNESS (INCH) | MATERIALS                          |
| 1                  | TOP        | 1 OZ, 0.0014" MIN           |                             | FINAL CU (THICKNESS AFTER PLATING) |
|                    |            |                             | TBD                         | ISOLA 370HR/EQUIVALENT             |
| 2                  | L2_GND     | 1 OZ, 0.0014" MIN           |                             | CU CLAD                            |
|                    |            |                             | TBD                         | ISOLA 370HR/EQUIVALENT             |
| 3                  | L3_POWER   | 1 OZ, 0.0014" MIN           |                             | CU CLAD                            |
|                    |            |                             | TBD                         | ISOLA 370HR/EQUIVALENT             |
| 4                  | BOTTOM     | 1 OZ, 0.0014" MIN           |                             | FINAL CU (THICKNESS AFTER PLATING) |

THE FINISHED PCB THICKNESS TO BE: 0.062" +/-10%

PRIMARY SIDE



GLOBAL OPERATIONS  
& TECHNOLOGY  
804 WOBURN STREET  
WILMINGTON, MA 01887

|       |         |                |  |              |
|-------|---------|----------------|--|--------------|
| SIZE  | FSCM NO | DRAWING NUMBER |  | REV          |
| C     | 24355   | 09-079885      |  | A            |
| SCALE | 1/1     |                |  | SHEET 2 OF 2 |