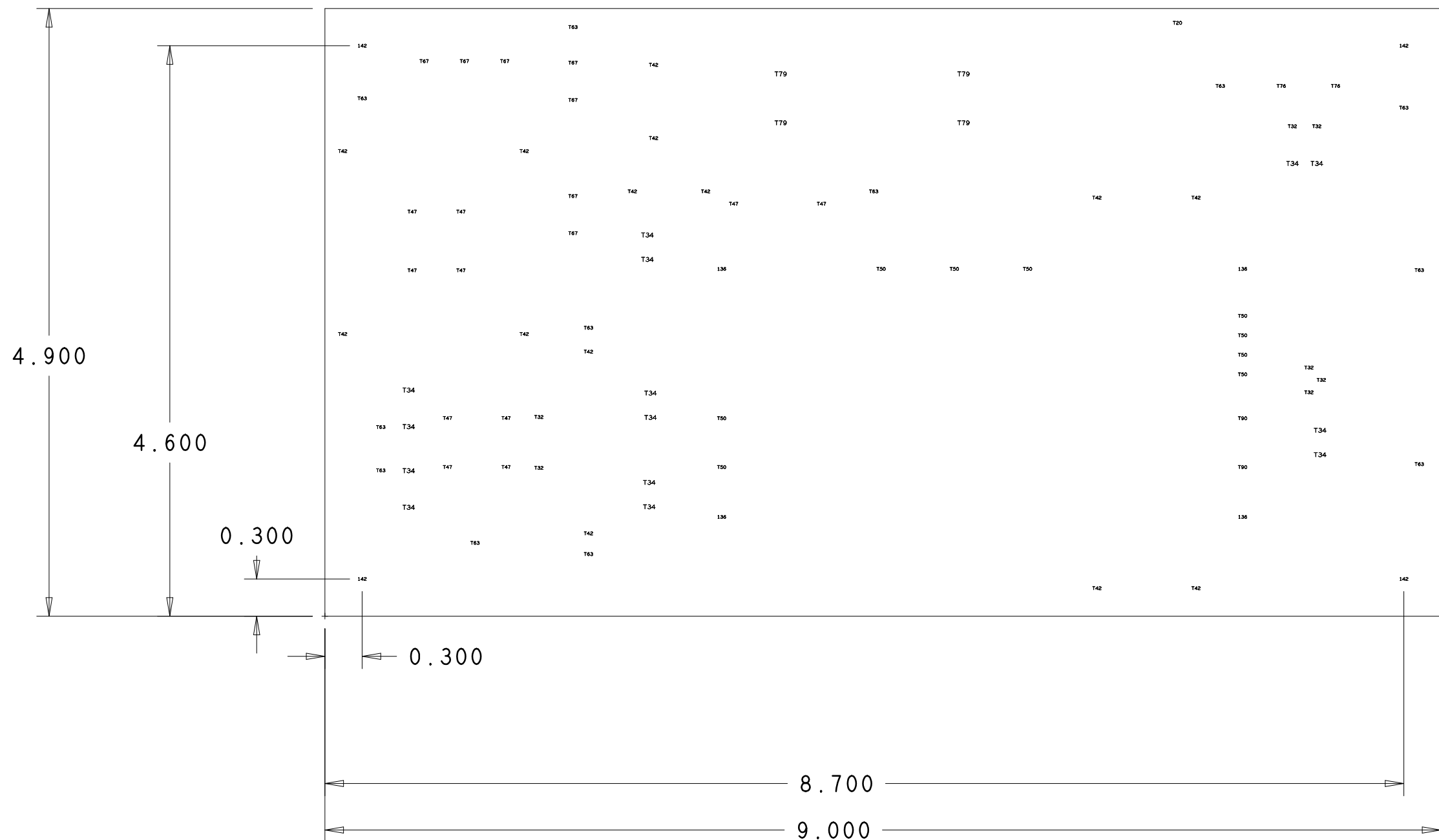


| REVISIONS |             |      |          |
|-----------|-------------|------|----------|
| REV       | DESCRIPTION | DATE | APPROVED |
|           |             |      |          |

1. BOARDS SHALL BE 100% NET LIST TESTED FOR OPENS AND SHORTS PER PROVIDED IPC-D-356 NETLIST.
2. THIS BOARD SHALL BE MANUFACTURED IN ACCORDANCE WITH IPC-6012A CLASS II SPECIFICATIONS AND MEET IPC-600 CLASS II ACCEPTABILITY STANDARDS.
3. MATERIAL:
  - a. FR4 PER IPC 4101B/24 /26 OR /28.
  - b. SIGNAL LAYERS TO BE 2 OZ. COPPER.
  - ~~c. PLANE LAYERS TO BE 1 OZ. COPPER.~~
  - d. OVERALL THICKNESS TO BE 0.062" +/- 10%
4. LEGEND:
  - a. WHITE NON-CONDUCTIVE EPOXY INK TOP SIDE.
5. SOLDERMASK:
  - a. APPLY LIQUID PHOTO-IMAGABLE (LPI) SOLDER MASK OVER BARE COPPER PER IPC-SM-840 CLASS H, COLOR MATTE BLUE, BOTH SIDES.
6. PLATING FINISH:
  - a. HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.
  - ~~b. THERMOFORM SILVER TAG.~~
7. PROCESS ALLOWANCES:
  - a. MAXIMUM BOW AND TWIST ACROSS DIAGONAL CORNERS OF THE BOARD SHALL NOT EXCEED 0.75%.
  - b. HOLE DIMENSIONS APPLY AFTER PLATING.
  - c. ALL HOLES SHALL BE LOCATED WITHIN 0.003" DIAMETER OF TRUE POSITION.
  - d. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003".
  - e. CONDUCTOR WIDTHS AND SPACING SHALL BE WITHIN +/- 0.002".
  - f. REMOVE ALL BURRS AND BREAK SHARP EDGES 0/015" MAX.
  - g. CUT OUTSIDE OF 0.001" BOARD OUTLINE.



| DRILL CHART: TOP to BOTTOM |       |            |     |
|----------------------------|-------|------------|-----|
| ALL UNITS ARE IN MILS      |       |            |     |
| FIGURE                     | SIZE  | PLATED     | QTY |
| 120                        | 20.0  | PLATED     | 1   |
| 130                        | 32.0  | PLATED     | 7   |
| 134                        | 34.0  | PLATED     | 14  |
| 142                        | 42.0  | PLATED     | 14  |
| 147                        | 47.0  | PLATED     | 10  |
| 150                        | 50.0  | PLATED     | 9   |
| 163                        | 63.0  | PLATED     | 12  |
| 167                        | 67.0  | PLATED     | 7   |
| 176                        | 76.0  | PLATED     | 2   |
| 179                        | 79.0  | PLATED     | 4   |
| 190                        | 90.0  | PLATED     | 2   |
| 136                        | 136.0 | PLATED     | 4   |
| 142                        | 142.0 | NON-PLATED | 4   |

|                            |                        |      |                                          |         |           |           |
|----------------------------|------------------------|------|------------------------------------------|---------|-----------|-----------|
| UNLESS OTHERWISE SPECIFIED | SIGNATURES             | DATE | DeepPIV AC/DC BOARD                      |         |           |           |
| DIMENSIONS ARE IN INCHES   |                        |      | MONTEREY BAY AQUARIUM RESEARCH INSTITUTE |         |           |           |
| TOLERANCES ON:             |                        |      | 7700 SANDHOLDT ROAD                      |         |           |           |
| 2 PL DECIMALS +/- 0.02"    |                        |      | MOSS LANDING, CA                         |         |           |           |
| 3 PL DECIMALS +/- 0.005"   |                        |      | SIZE                                     | RELEASE | DWG NO    |           |
| ANGLES +/- 1 Degree        |                        |      | C                                        | A       | 100221097 |           |
| FRACTIONS .                | DESIGNED BY: CHAD KEYC |      | SCALE                                    | 1-1     |           | SHEET 1-1 |
|                            | LAYOUT BY: JOSE ROSAL  |      |                                          |         |           |           |