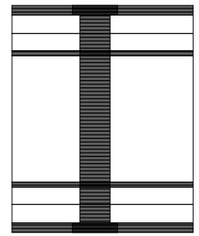


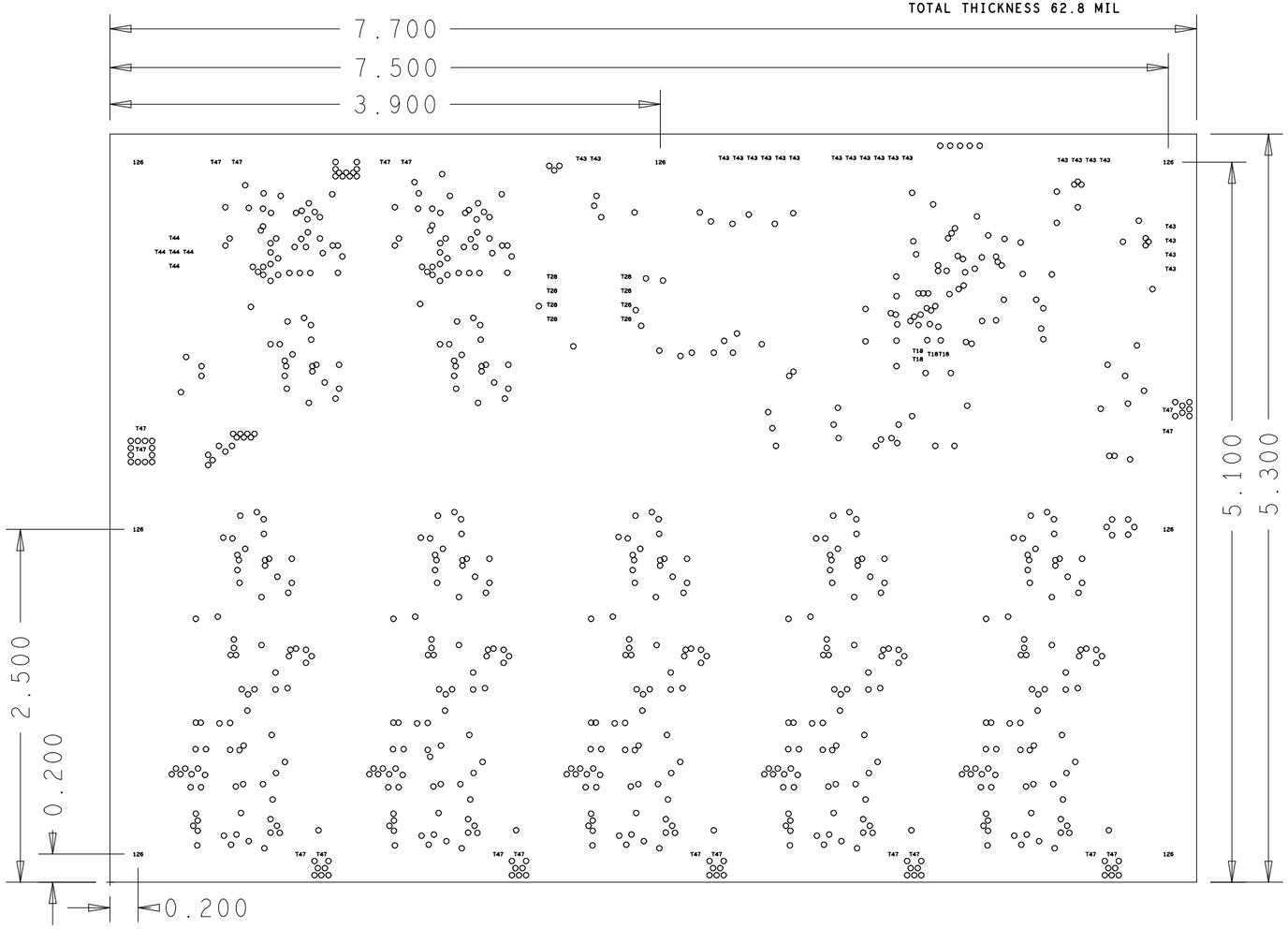
L1: TOP CONDUCTOR - COPPER 2.7 MIL
✱ PREPREG 2116 - FR-4 5.1 MIL
✱ PREPREG 2116 - FR-4 4.7 MIL
L2: IN1 CONDUCTOR - COPPER 1.4 MIL

✱ DIELECTRIC - FR-4 35 MIL

L3: IN2 CONDUCTOR - COPPER 1.4 MIL
✱ PREPREG 2116 - FR-4 4.7 MIL
✱ PREPREG 2116 - FR-4 5.1 MIL
L4: BOTTOM CONDUCTOR - COPPER 2.7 MIL

DESIGN CROSS SECTION CHART
TOTAL THICKNESS 62.8 MIL

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
○	10.0	PLATED	744
T18	18.0	PLATED	4
T28	28.0	PLATED	8
T43	43.0	PLATED	22
T44	44.0	PLATED	5
T47	47.0	PLATED	18
126	126.0	PLATED	7

CLASS II FABRICATION NOTES: (UNLESS OTHERWISE SPECIFIED)

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 BOTH SIDES.
5. SOLDERMASK:
   a. APPLY LIQUID PHOTO-IMAGABLE (LPI) SOLDER MASK OVER BARE COPPER PER IPC-SM-840 CLASS H, COLOR GREEN, BOTH SIDES.
6. PLATING FINISH:
   a. HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.
   ~~b. IMMERSION SILVER IAg.~~
7. PROCESS ALLOWANCES:
   a. MAXIMUM BOW AND TWIST SHALL NOT EXCEED .007" PER INCH
   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.

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	BASE MICRO PROTOTYPE		
DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS +/- 0.02" 3 PL DECIMALS +/- 0.005" ANGLES +/- 1 Degree FRACTIONS +			MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA		
			SIZE B	REVISION A	DWG NO 10021097
	DESIGNED BY: SCOTT JENSEN				
	LAYOUT BY: JOSE ROSAL		SCALE 1-1		SHEET 1-1