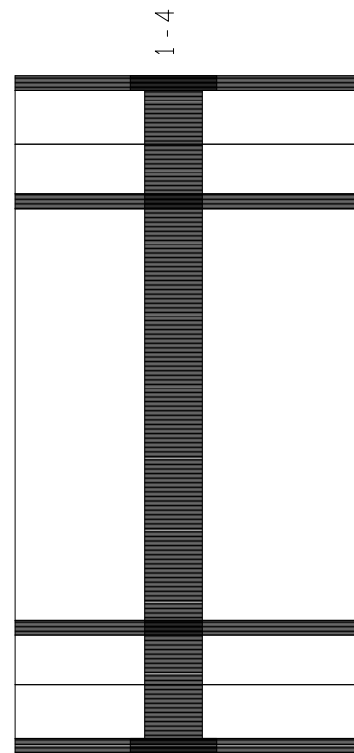




```

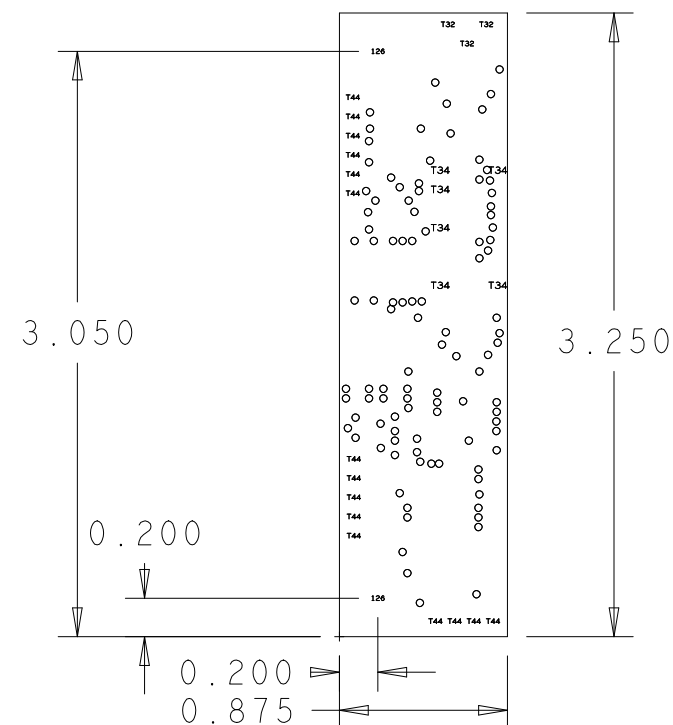
L1:  TOP CONDUCTOR - COPPER 1.4 MIL
    * PREPREG - FR-4 (2116) 5.1 MIL
    * PREPREG - FR-4 (2116) 4.7 MIL
L2:  IN1 CONDUCTOR - COPPER 1.4 MIL

```

* CORE - FR-4 35 MIL

L3: IN2 CONDUCTOR - COPPER 1.4 MIL
* PREPREG - FR-4 (2116) 4.7 MIL
* PREPREG - FR-4 (2116) 5.1 MIL
L4: BOTTOM CONDUCTOR - COPPER 1.4 MIL

DESIGN CROSS SECTION CHART
THICKNESS 60.2 MIL



REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
0	10.0	PLATED	103
132	32.0	PLATED	3
T34	34.0	PLATED	6
T44	44.0	PLATED	15
126	126.0	PLATED	2

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 1 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 INK~~
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	BRS pH AMPLIFIER BOARD			
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			
	DESIGNED BY: CRAIG OKUDA		SIZE B	REVISION D	DWG NO 1002594	
	LAYOUT BY: JOSE ROSAL		SCALE 1 - 1		SHEET 1 - 1	