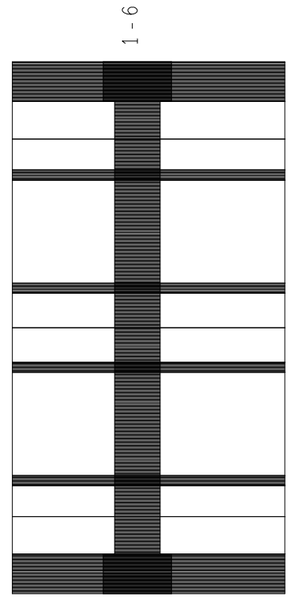
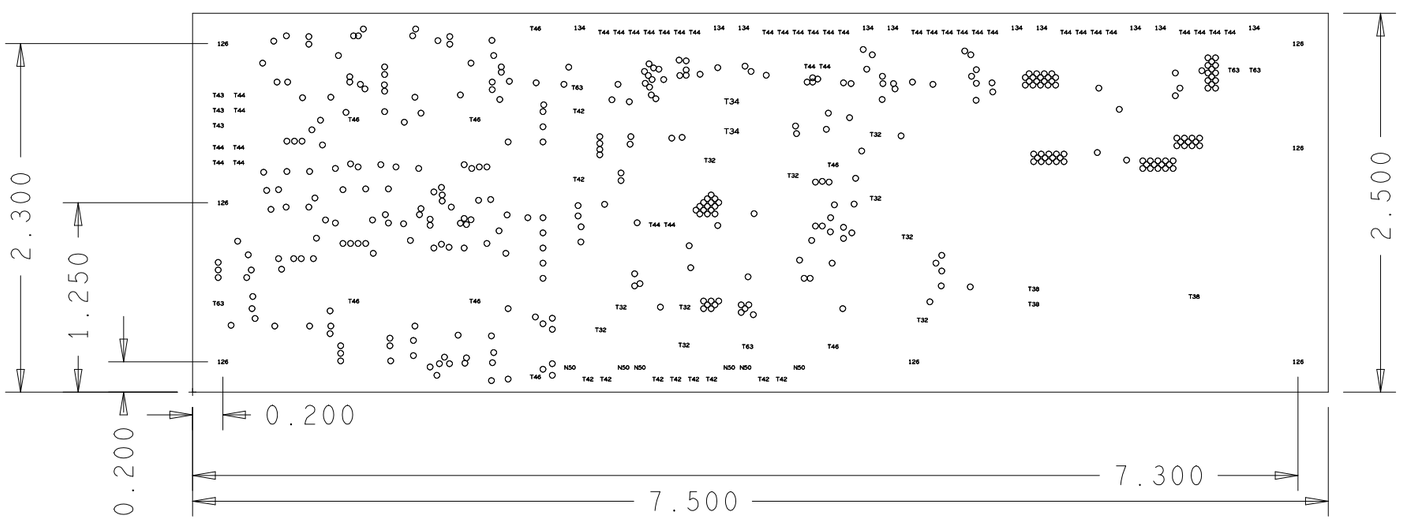
DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
○	10.0	PLATED	381
T32	32.0	PLATED	10
T34	34.0	PLATED	2
T38	38.0	PLATED	3
T42	42.0	PLATED	10
T43	43.0	PLATED	3
T44	44.0	PLATED	37
T63	63.0	PLATED	5
126	126.0	PLATED	7
134	134.0	PLATED	10
T46	46.0	NON-PLATED	8
N50	50.0	NON-PLATED	6



L1: TOP CONDUCTOR - COPPER 2.7 MIL
* 2116 PRE-PREG - FR-4 5.1 MIL
* 2116 PRE-PREG - FR-4 3.2 MIL
L2: IN1 CONDUCTOR - COPPER 2.7 MIL
* CORE - FR-4 28 MIL
L3: IN2 CONDUCTOR - COPPER 2.7 MIL
* 2116 PRE-PREG - FR-4 4.3 MIL
* 2116 PRE-PREG - FR-4 4.3 MIL
L4: IN3 CONDUCTOR - COPPER 2.7 MIL
* CORE - FR-4 28 MIL
L5: IN4 CONDUCTOR - COPPER 2.7 MIL
* 2116 PRE-PREG - FR-4 3.2 MIL
* 2116 PRE-PREG - FR-4 5.1 MIL
L6: BOTTOM CONDUCTOR - COPPER 2.7 MIL

DESIGN CROSS SECTION CHART
TOTAL THICKNESS 97.4 MIL

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED



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 2 OZ. COPPER.
   d. OVERALL THICKNESS TO BE 0.093" +/- 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 BLACK, 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	ISUS/DURAFET CF2 BASED CONTROLLER		
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: LUKE COLETTI		SIZE B	REVISION B	DWG NO 10021035
	LAYOUT BY: JOSE ROSAL		SCALE 1-1		SHEET 1-1