



L1: TOP CONDUCTOR - COPPER 2.7 MIL
* 2@106+7628 - FR408 11.5 MIL
L2: IN1 CONDUCTOR - COPPER 2.7 MIL
* CORE - FR408 21 MIL
L3: IN2 CONDUCTOR - COPPER 2.7 MIL
* 2@1080+7628 - FR408 12.5 MIL
L4: IN3 CONDUCTOR - COPPER 2.7 MIL
* CORE - FR408 21 MIL
L5: IN4 CONDUCTOR - COPPER 2.7 MIL
* 2@106+7628 - FR408 11.5 MIL
L6: BOTTOM CONDUCTOR - COPPER 2.7 MIL

DESIGN CROSS SECTION CHART
TOTAL THICKNESS 93.7 MIL

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. FR408 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 BLUE, BOTH SIDES.
6. PLATING FINISH:
a. HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.
~~b. IMMERSION SOLDER PLATING.~~
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.

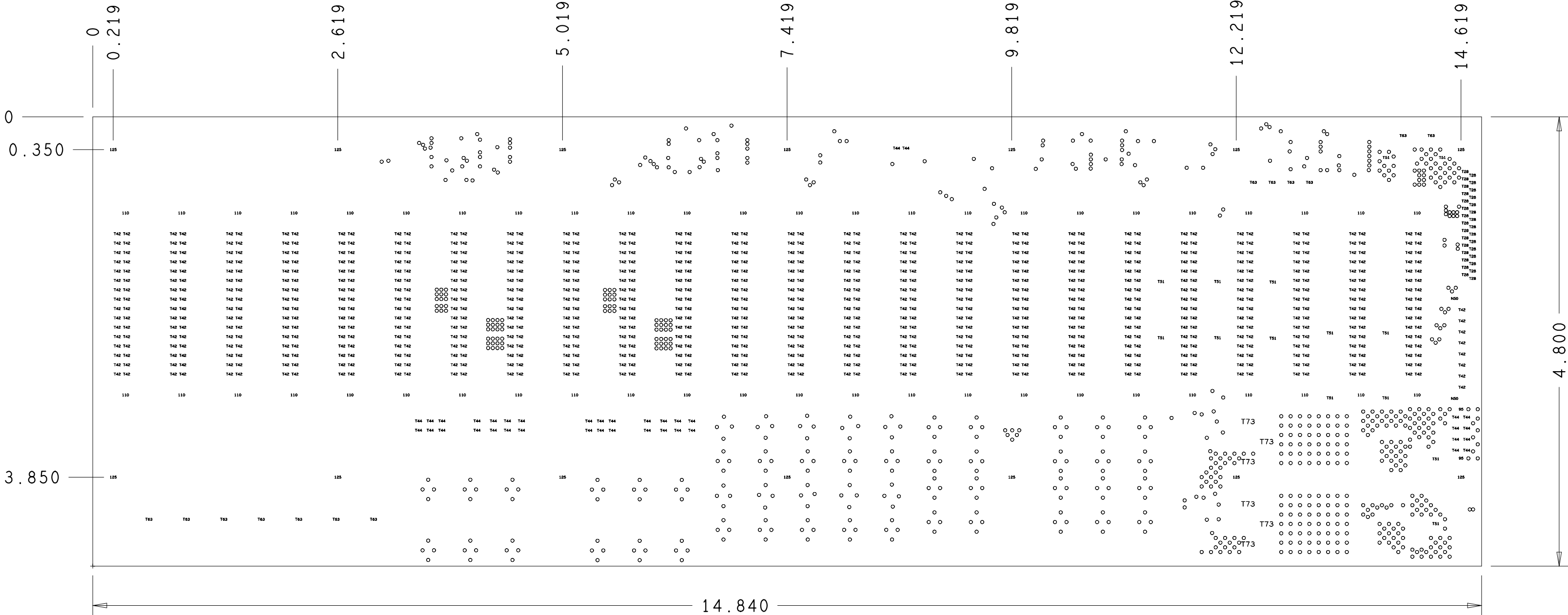
REVISIONS

REV	DESCRIPTION	DATE	APPROVED

DRILL CHART: TOP to BOTTOM

ALL UNITS ARE IN MILS

FIGURE	SIZE	PLATED	QTY
Ø	15.0	PLATED	822
T28	28.0	PLATED	30
T42	42.0	PLATED	776
T44	44.0	PLATED	38
T51	51.0	PLATED	14
T63	63.0	PLATED	13
T73	73.0	PLATED	6
95	95.0	PLATED	2
125	125.0	PLATED	14
160	50.0	NON-PLATED	2
110	110.0	NON-PLATED	48



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS +/- 0.02" 3 PL DECIMALS +/- 0.005" ANGLES +/- 1 Degree	SIGNATURES	DATE	LRAUV LONG MOTHERBOARD		
			MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT RD MOSS LANDING, CA 95039		
	DESIGNED BY: ED MELLINGER		SIZE C	RELEASE A	DWG NO 11021164
	LAYOUT BY: JOSE ROSAL		SCALE 1-1		SHEET 1-1