

L1: TOP CONDUCTOR - COPPER 2.7 MIL
* PRE-PREG- FR-4 11.6 MIL
L2: IN1 CONDUCTOR - COPPER 2.7 MIL

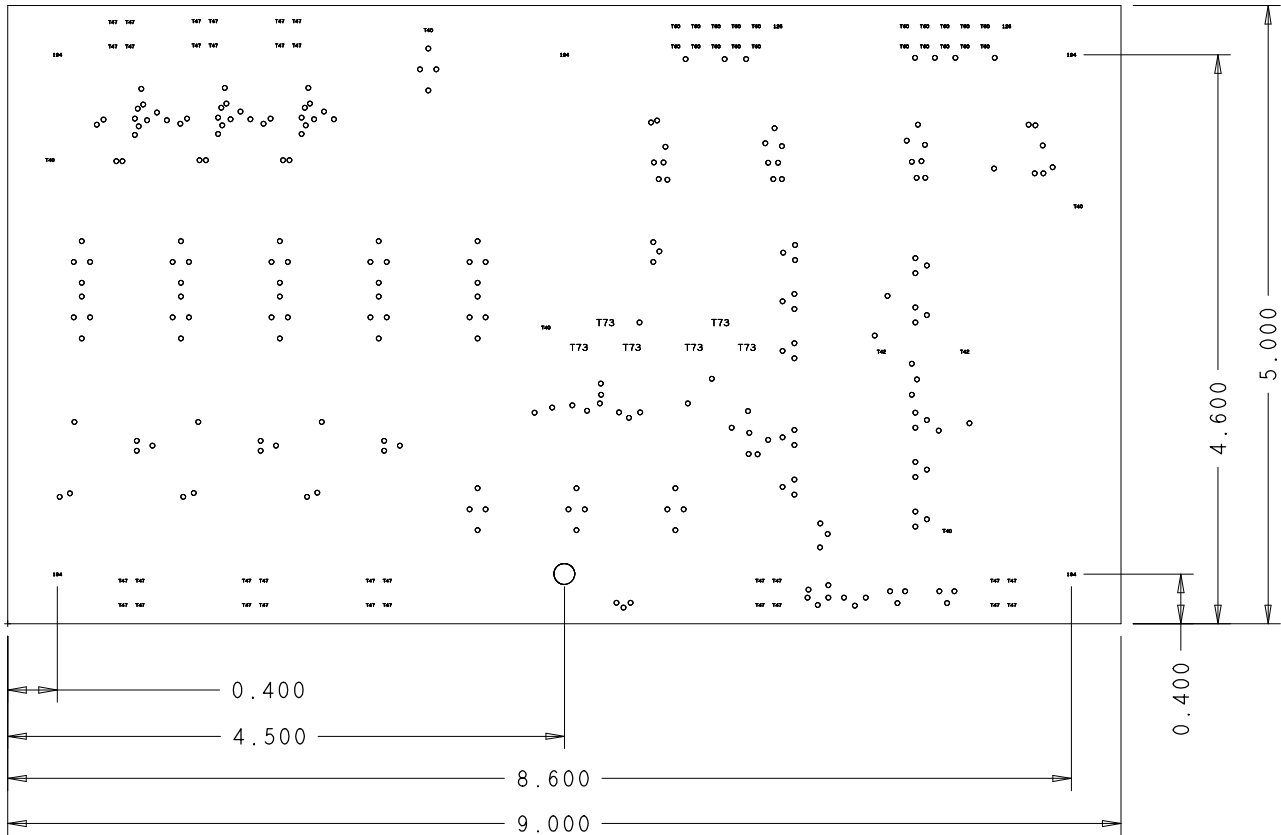
* CORE - FR-4 59 MIL

L3: IN2 CONDUCTOR - COPPER 2.7 MIL
* PRE-PREG - FR-4 11.6 MIL
L4: BOTTOM CONDUCTOR - COPPER 2.7 MIL

DESIGN CROSS SECTION CHART
TOTAL THICKNESS 93 MIL

CLASS II FABRICATION NOTES: (UNLESS OTHERWISE SPECIFIED)

- BOARDS SHALL BE 100% NET LIST TESTED FOR OPENS AND SHORTS PER PROVIDED IPC-D-356 NETLIST.
- THIS BOARD SHALL BE MANUFACTURED IN ACCORDANCE WITH IPC-6012A CLASS II SPECIFICATIONS AND MEET IPC-600 CLASS II ACCEPTABILITY STANDARDS.
- MATERIAL:
 - FR408 PER IPC 4101B/24 /26, OR /28.
 - SIGNAL LAYERS TO BE 2 OZ. COPPER.
 - PLANE LAYERS TO BE 2 OZ. COPPER.
 - OVERALL THICKNESS TO BE 0.093" +/- 10%
- LEGEND:
 - WHITE NON-CONDUCTIVE EPOXY INK BOTH SIDES.
- SOLDERMASK:
 - APPLY LIQUID PHOTO-IMAGABLE (LPI) SOLDER MASK OVER BARE COPPER PER IPC-SM-840 CLASS H, COLOR VIOLET, BOTH SIDES.
- PLATING FINISH:
 - HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.
- PROCESS ALLOWANCES:
 - MAXIMUM BOW AND TWIST SHALL NOT EXCEED .007" PER INCH
 - HOLE DIMENSIONS APPLY AFTER PLATING.
 - ALL HOLES SHALL BE LOCATED WITHIN 0.003" DIAMETER OF TRUE POSITION.
 - LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003".
 - CONDUCTOR WIDTHS AND SPACING SHALL BE WITHIN +/- 0.002".
 - REMOVE ALL BURRS AND BREAK SHARP EDGES 0/015" MAX.
 - 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
○	15.0	PLATED	227
140	40.0	PLATED	5
142	42.0	PLATED	2
141	47.0	PLATED	32
140	60.0	PLATED	20
T73	73.0	PLATED	6
○	169.3	PLATED	1
126	126.0	NON-PLATED	2
194	194.0	NON-PLATED	5

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	CCE BATTERY POWER MANAGEMENT PCB		
DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS +/- 0.02" 3 PL DECIMALS +/- 0.005" ANGLES +/- 1 Degree			MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT RD MOSS LANDING, CA 95039		
			SIZE C	RELEASE A	DWG NO 10021142-05/06-B
	DESIGNED BY: MARK CHAFFEY				
	LAYOUT BY: JOSE ROSAL		SCALE 1-1	SHEET 1-1	