

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED

FILE DESCRIPTIONS:

100221117rA_PMTOP.art: TOP PASTEMASK

100221117rA_SMTOP.art: TOP SOLDERMASK

100221117rA_SSTOP.art: TOP SILK SCREEN

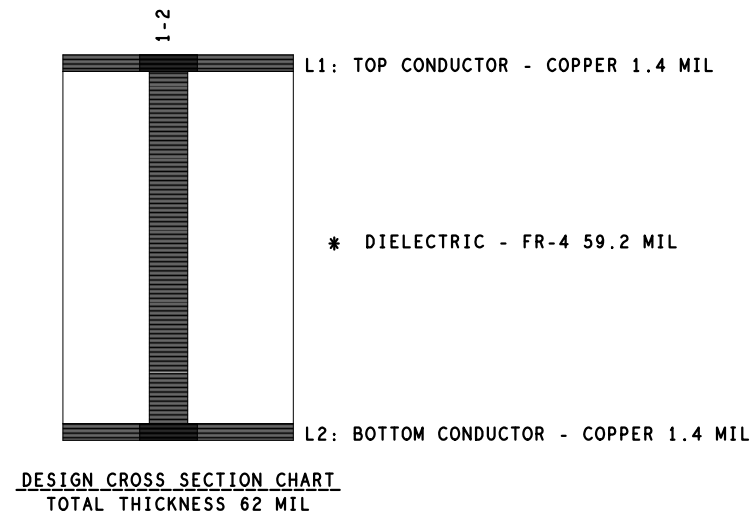
100221117rA_CUTOP.art: TOP COPPER

100221117rA_CUBOT.art: BOTTOM COPPER

100221117rA_SMBOT.art: BOTTOM SOLDERMASK

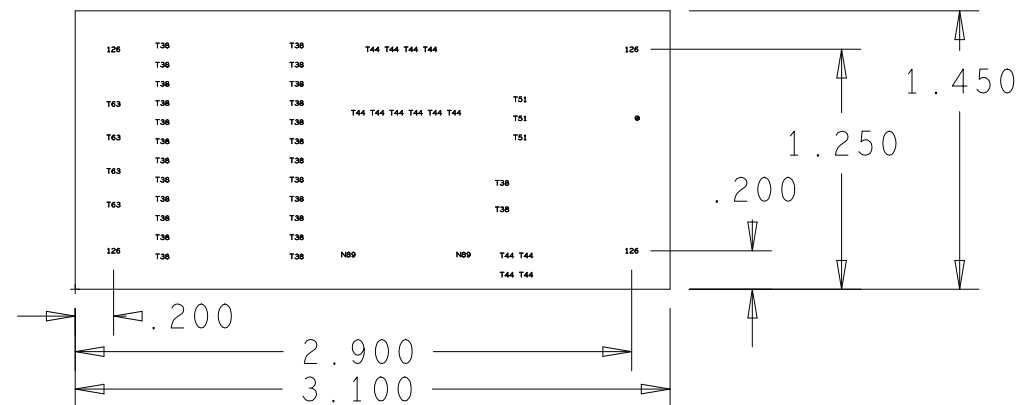
100221117rA_FreezerMonitor-1-2.drl: DRILL FILE

100221117rA_FABRICATION-DWG: FABRICATION DRAWING



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" +/- 0.007"
4. LEGEND:
 - a. WHITE NON-CONDUCTIVE EPOXY INK TOP SIDE.
5. SOLDERMASK:
 - a. APPLY LIQUID PHOTO-IMAGABLE (LPI) SOLDER MASK OVER BARE COPPER PER IPC-SM-840 CLASS H, COLOR MATTE BLUE, 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 ACROSS DIAGONAL CORNERS OF THE BOARD SHALL NOT EXCEED 0.75%.
 - 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.



DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
T38	38.0	PLATED	26
T44	44.0	PLATED	14
T51	51.0	PLATED	3
T63	63.0	PLATED	4
126	126.0	PLATED	4
•	151.6	PLATED	1
N89	89.0	NON-PLATED	2

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	TEMPERATURE MONITOR 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: JOSE ROSAL		SIZE B	RELEASE A	DWG NO 100221117	
	LAYOUT BY: JOSE ROSAL		SCALE 1 - 1			SHEET 1 - 1