

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 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.

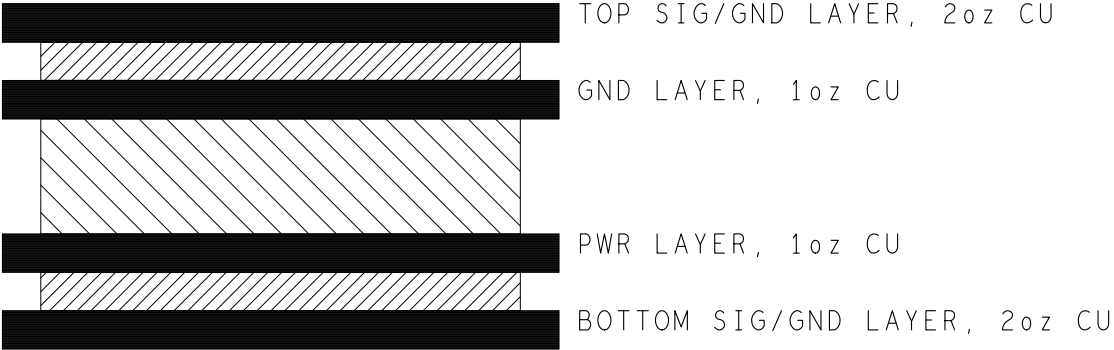
g. CUT OUTSIDE OF 0.001" BOARD OUTLINE.

PRE-PREG (2X) 2116 (0.0094")

INNER CORE

PRE-PREG (2X) 2116 (0.0094")

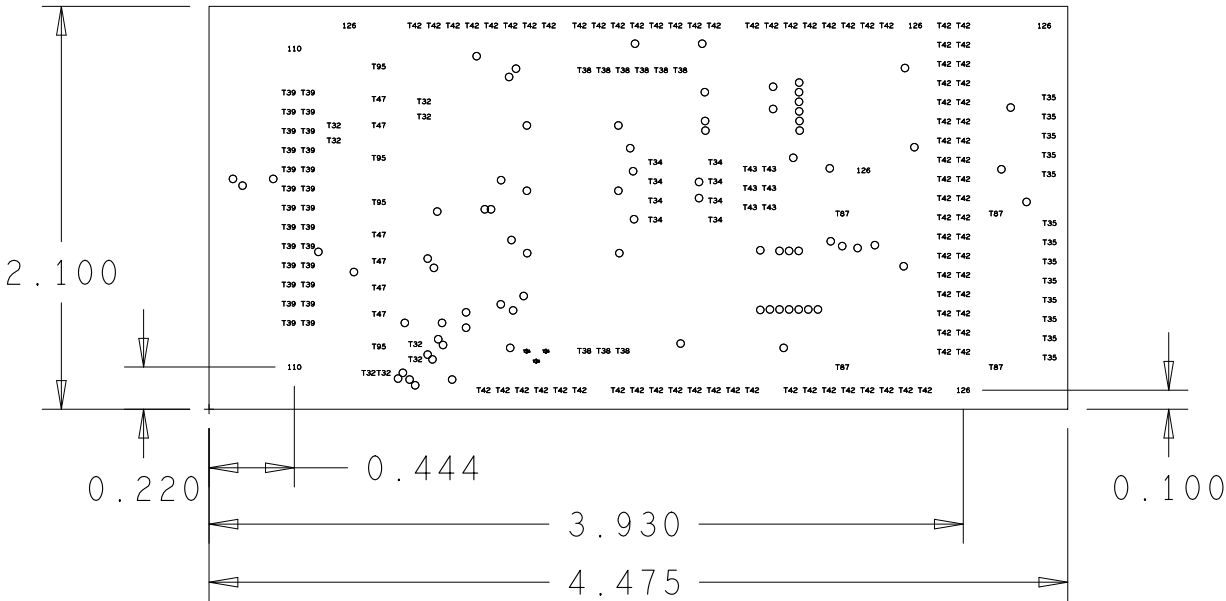
PREFERRED STACKUP



DRILL CHART: TOP to BOTTOM

ALL UNITS ARE IN MILS

FIGURE	SIZE	PLATED	QTY
○	10.0	PLATED	81
T32	32.0	PLATED	8
T34	34.0	PLATED	8
T35	35.0	PLATED	13
⬤	35.0	PLATED	3
T38	38.0	PLATED	9
T39	39.0	PLATED	26
T42	42.0	PLATED	82
T43	43.0	PLATED	6
T47	47.0	PLATED	6
T87	87.0	PLATED	4
T95	95.0	PLATED	4
110	110.0	PLATED	2
126	126.0	PLATED	5



VISIBLE LAYERS

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	ARDUINO SIA CONTROLLER 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			
			SIZE B	REVISION A	DWG NO 10020915	
	DESIGNED BY: LUKE COLETTI		SCALE 1 - 1		SHEET 1 - 1	
	LAYOUT BY: JOSE ROSAL					