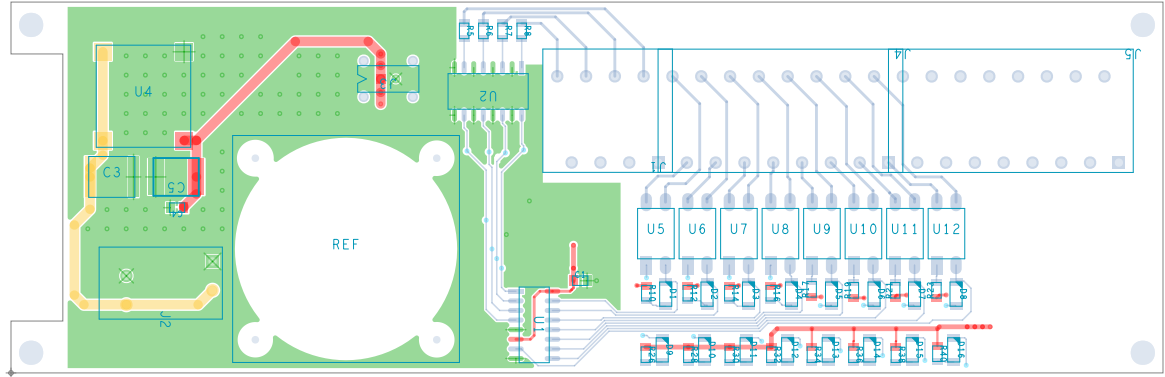
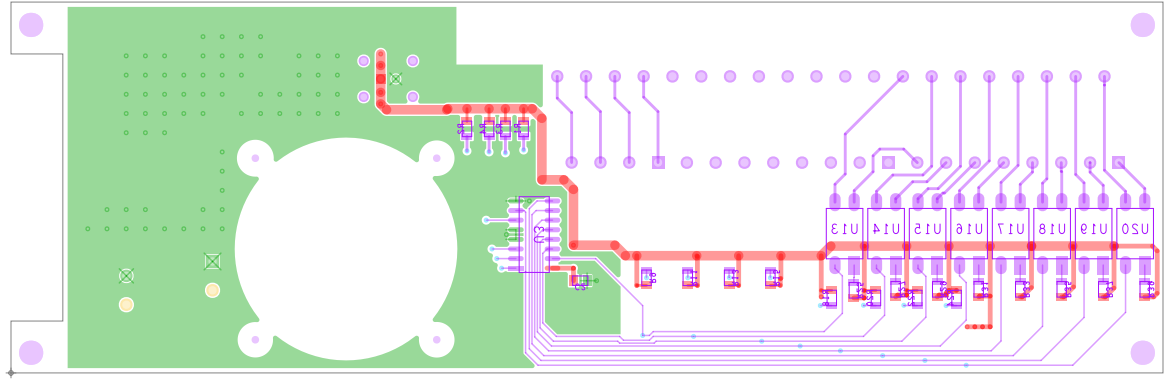


ART FILM - _TOPcu



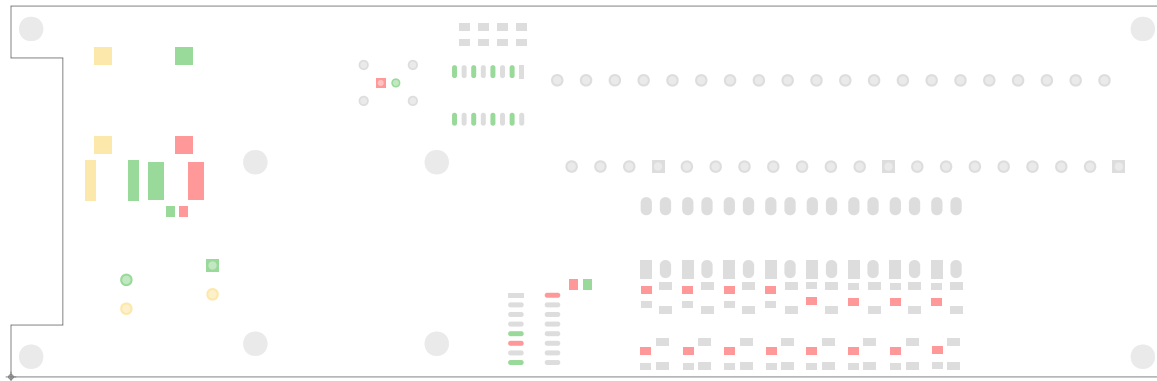
ART FILM - _TOPcu

ART FILM - _BOTcu



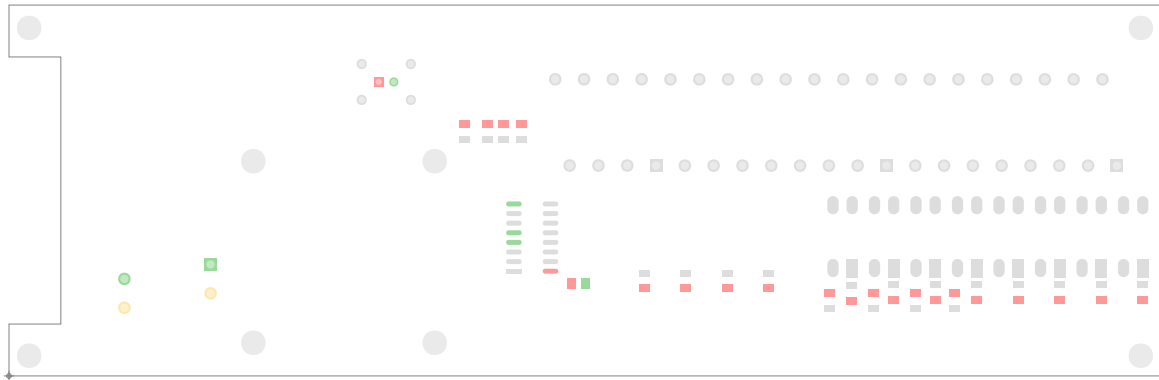
ART FILM - _BOTcu

ART FILM - _TOPsm



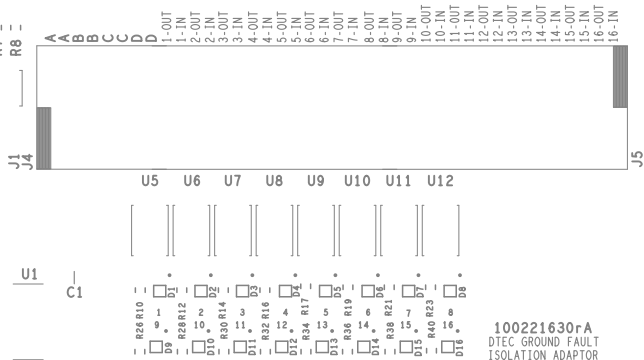
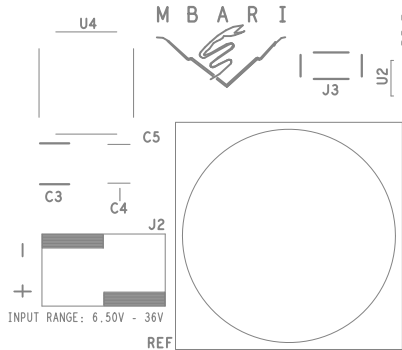
ART FILM - _TOPsm

ART FILM - _BOTsm



ART FILM - _BOTsm

ART FILM - _TOPss



ART FILM - _TOPss

ART FILM - _TOFpm



ART FILM - _TOFpm

ART FILM - _BOTpm



ART FILM - _BOTpm

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 1/2 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 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.

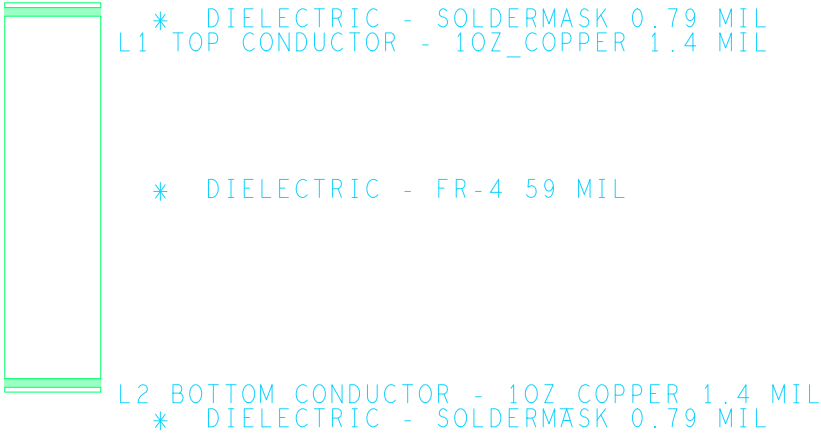
c. ALL HOLES SHALL BE LOCATED WITHIN 0.003" DIAMETER OF TRUE POSITION.

d. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003".

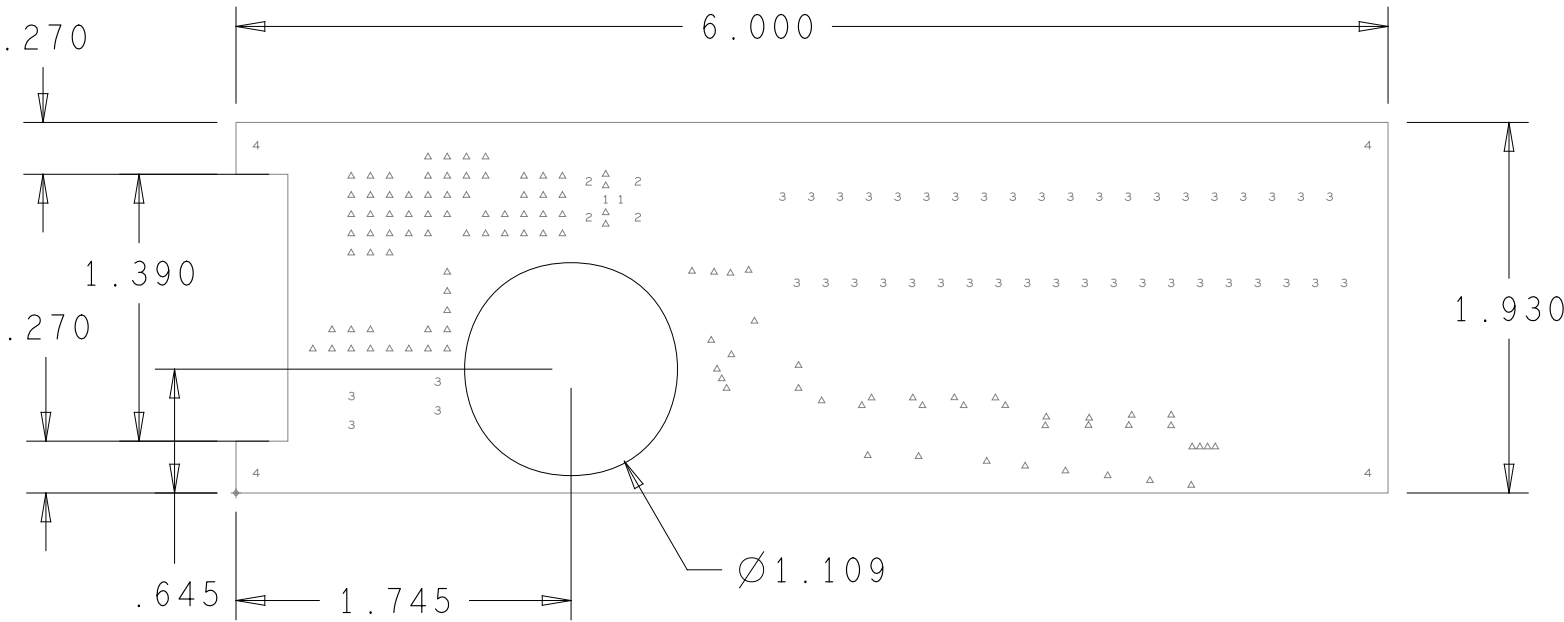
e. CONDUCTOR WIDTHS AND SPACING SHALL BE WITHIN +/- 0.002".

f. REMOVE ALL BURRS AND BREAK SHARP EDGES 0/015" MAX.

g. CUT OUTSIDE OF 0.001" BOARD OUTLINE.



DESIGN CROSS SECTION CHART
TOTAL THICKNESS 63.37 MIL



DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	FINISHED_SIZE	PLATED	QTY
△	12.0	PLATED	110
+	31.5	PLATED	2
+	35.4	PLATED	4
+	43.3	PLATED	44
126	126.0	PLATED	4
+	126.0	NON-PLATED	4

UNLESS OTHERWISE SPECIFIED	DESIGNED BY:Jose Rosal / Paul McGill	100221630_GroundFaultIsolationBoard			
	LAYOUT BY:Jose Rosal	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT RD MOSS LANDING, CA 95039			
	CHECKED IN BY:jrosal				
	CID:9/16/2021 10:57:32 AM				
DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS +/- 0.02" 3 PL DECIMALS +/- 0.005" ANGLES +/- 1 1 Degree FRACTIONS +	SYSTEM: Ground Fault System	DRAWING NUMBER: 100221630	RELEASE: A	VERSION: 7	
	SUBSYSTEM: Ventana				
PROJECT NAME:Ventana		STATUS: Active	SCALE 1-1	SIZE: B	SHEET 1 OF 1