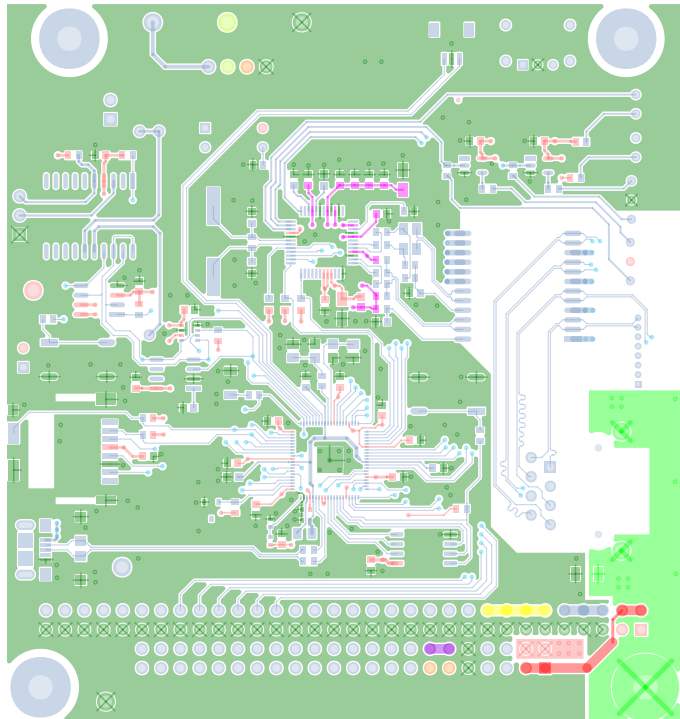
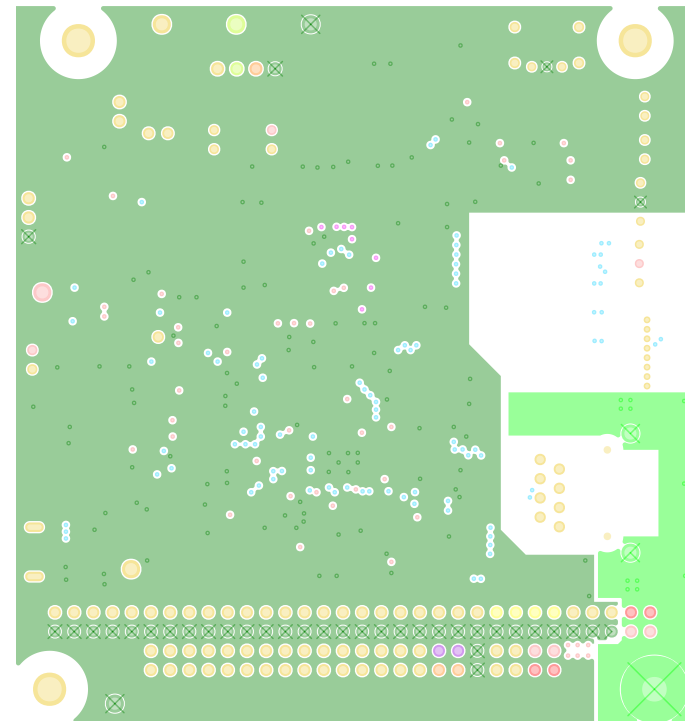


ART FILM - _TOPcu



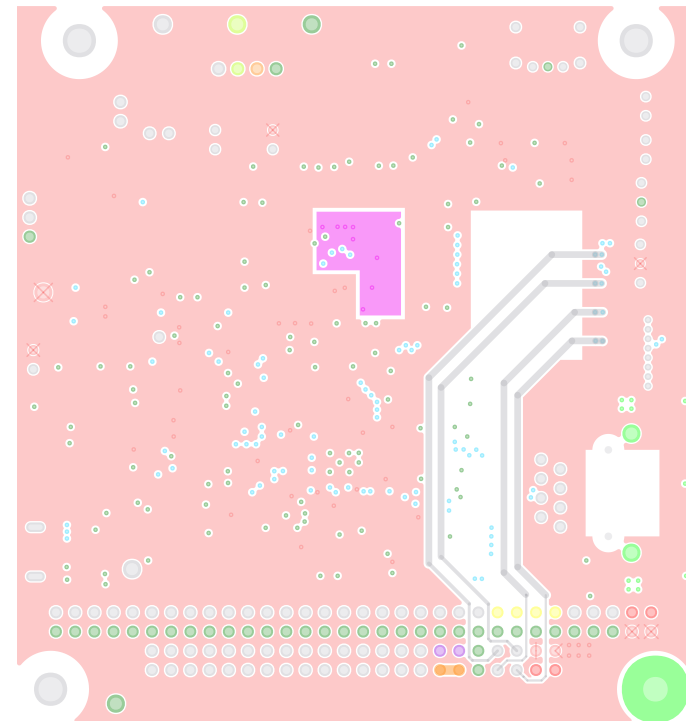
ART FILM - _TOPcu

ART FILM - _GNDcu



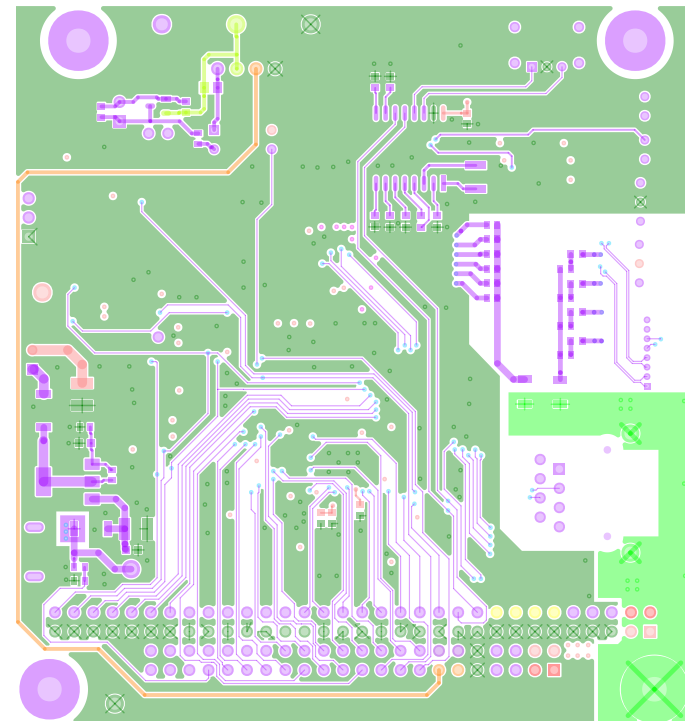
ART FILM - _GNDcu

ART FILM - _PWRcu



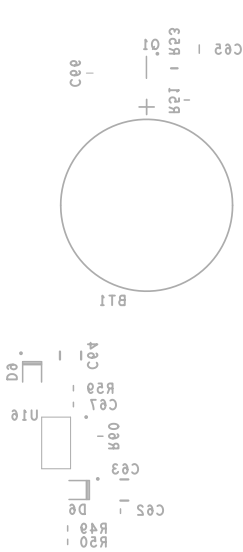
ART FILM - _PWRcu

ART FILM - _BOTcu

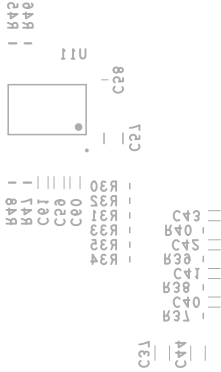


ART FILM - _BOTcu

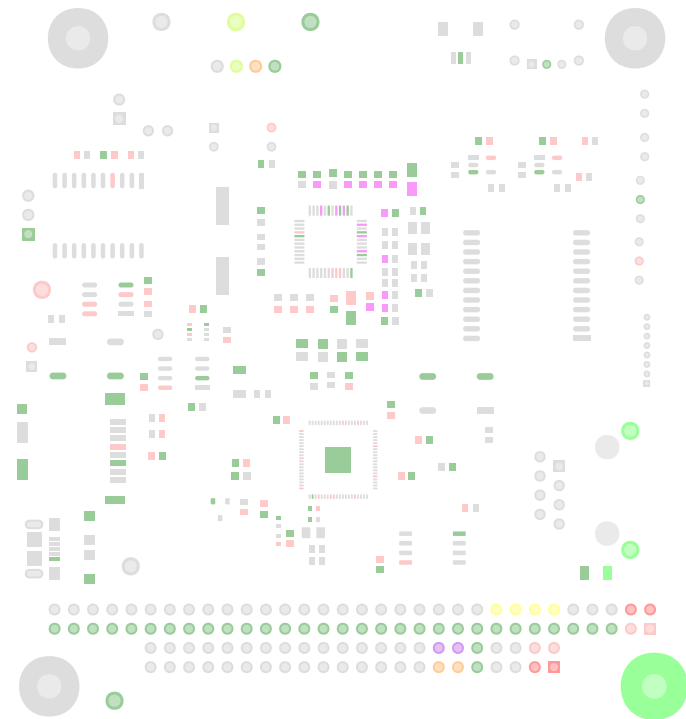
ART FILM - _BOTss



ART FILM - _BOTss

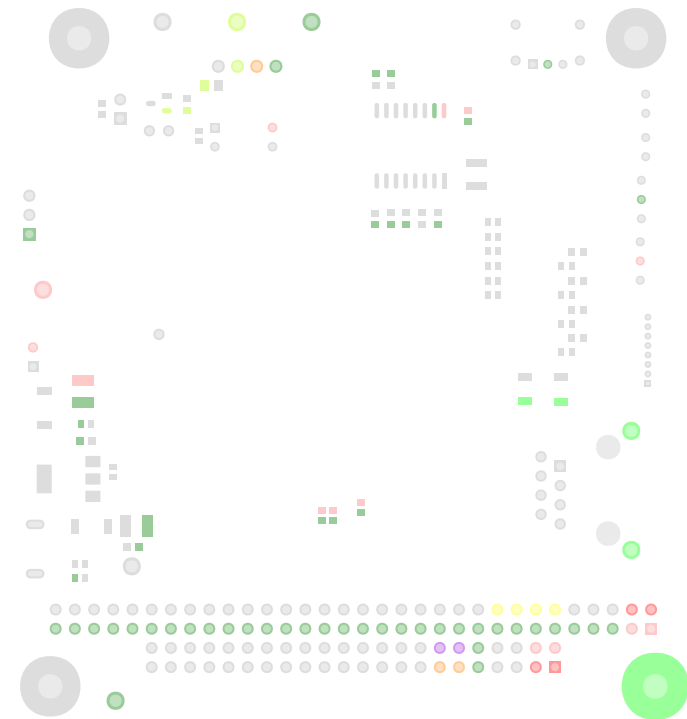


ART FILM - _TOPsm

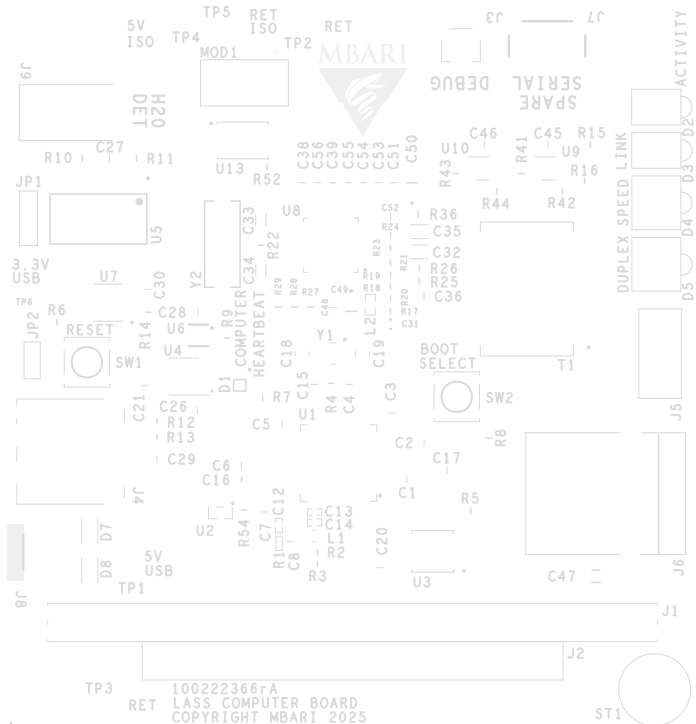


ART FILM - _TOPsm

ART FILM - _BOTsm



ART FILM - _BOTsm



ART FILM - _TOPpm



ART FILM - _TOPpm

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 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 TAG.~~
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.

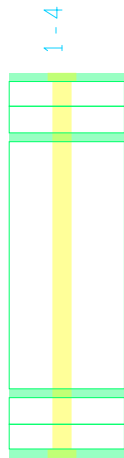
c. ALL HOLES SHALL BE LOCATED WITHIN 0.003" DIAMETER OF TRUE POSITION.

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

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

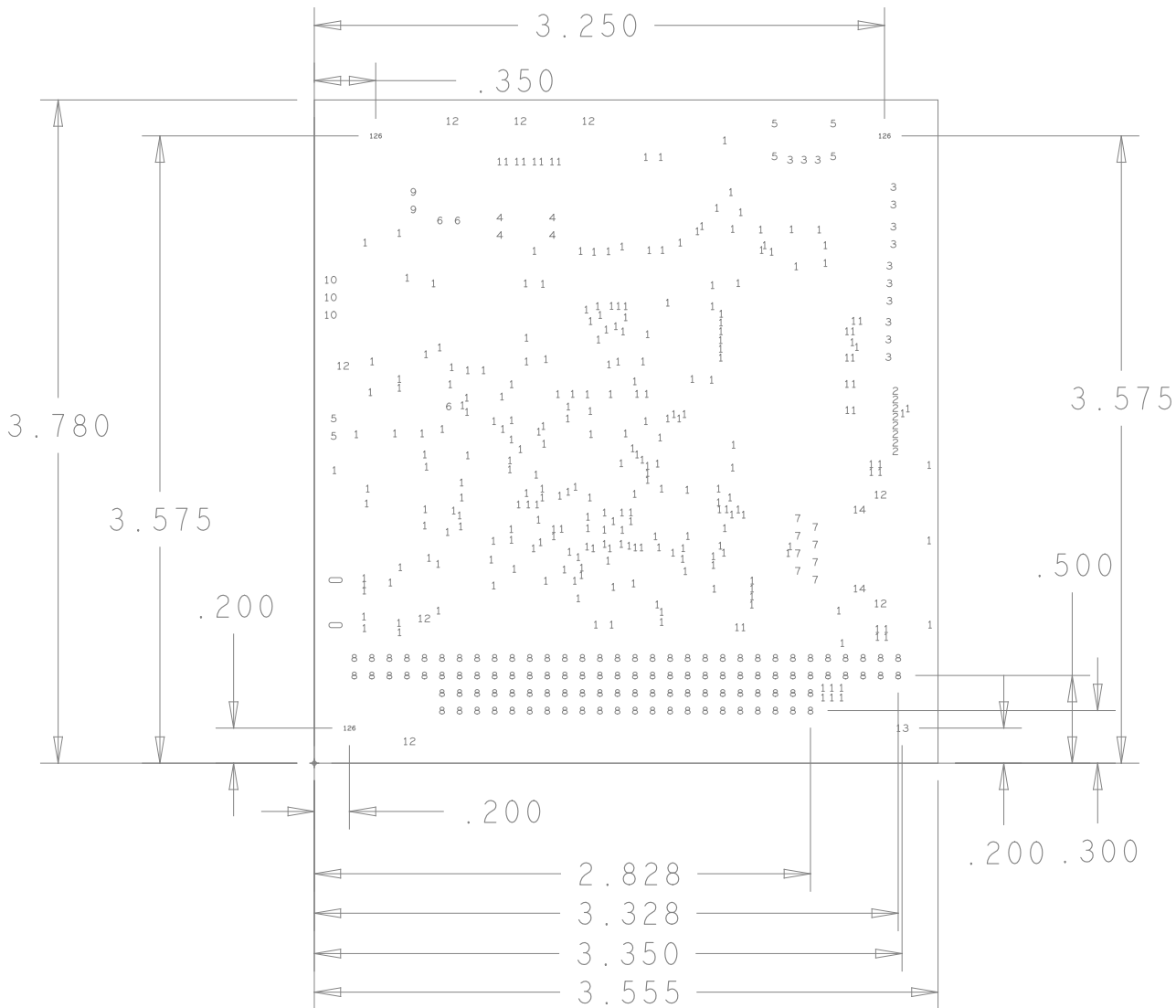
f. REMOVE ALL BURRS AND BREAK SHARP EDGES 0/015" MAX.

g. CUT OUTSIDE OF 0.001" BOARD OUTLINE.



- * SURFACE - AIR 0 MIL
- L1 TOP CONDUCTOR - 1OZ_COPPER 1.4 MIL
- * DIELECTRIC - FR-4 3.9 MIL
- * DIELECTRIC - FR-4 4.2 MIL
- L2 GND CONDUCTOR - 1OZ_COPPER 1.4 MIL
-
- * DIELECTRIC - FR-4 39 MIL
-
- L3 PWR CONDUCTOR - 1OZ_COPPER 1.4 MIL
- * DIELECTRIC - FR-4 4.2 MIL
- * DIELECTRIC - FR-4 3.9 MIL
- L4 BOTTOM CONDUCTOR - 1OZ_COPPER 1.4 MIL
- * SURFACE - AIR 0 MIL

DESIGN CROSS SECTION CHART
TOTAL THICKNESS 60.8 MIL



DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	FINISHED_SIZE	DRILLED_SIZE	PLATED	QTY
1	10.0	-	PLATED	267
2	19.7	-	PLATED	8
3	31.5	-	PLATED	13
4	33.5	-	PLATED	4
5	35.4	-	PLATED	6
6	39.0	-	PLATED	3
7	39.4	-	PLATED	8
8	41.3	-	PLATED	108
9	41.7	-	PLATED	2
10	42.5	-	PLATED	3
11	45.3	-	PLATED	4
12	63.0	-	PLATED	8
126	126.0	-	PLATED	3
13	128.0	-	PLATED	1
14	126.0	-	NON-PLATED	2
Ø	75.6x28.3	-	PLATED	2

UNLESS OTHERWISE SPECIFIED	DESIGNED BY:Chad Kecy	100222366_OI_LASS_PWB_GOB_Computer_Board		
	LAYOUT BY:James McClure			
	CHECKED IN BY:jmcclure	MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT RD MOSS LANDING, CA 95039		
	CID:3/20/2025 2:10:21 PM			
	SYSTEM:			
SUBSYSTEM:		DRAWING NUMBER: 100222366	RELEASE: A	VERSION: 8
PROJECT NAME:Seafloor Mapping		STATUS: Active	SCALE 1-1	SIZE: B
				SHEET 1 OF 1

