

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 0.042" +/- 0.007"
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.

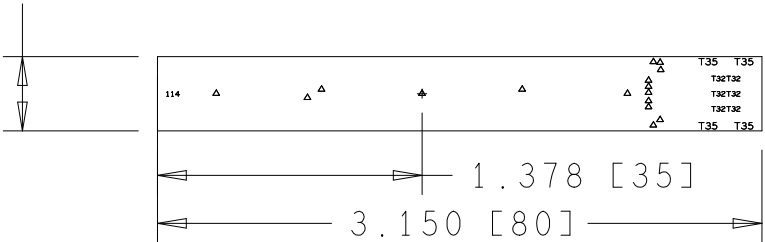
d. LAYER TO LAYER REGISTRATION SHALL BE WITHIN 0.003"

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.

0.386 [9.8]



1-4

- L1: TOP CONDUCTOR - COPPER 1.4 MIL
- * DIELECTRIC - FR-4 9.69 MIL
- L2: MID-LAYER 1 CONDUCTOR - COPPER 1.4 MIL
- * DIELECTRIC - FR-4 18 MIL
- L3: MID-LAYER 2 CONDUCTOR - COPPER 1.4 MIL
- * DIELECTRIC - FR-4 9.69 MIL
- L4: BOTTOM CONDUCTOR - COPPER 1.4 MIL

DESIGN CROSS SECTION CHART
TOTAL THICKNESS 42.98 MIL

DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
Δ	12.0	PLATED	16
T32	32.0	PLATED	6
T35	35.0	PLATED	4
114	114.0	NON-PLATED	1

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON: 2 PL DECIMALS +/- 0.02" 3 PL DECIMALS +/- 0.005" ANGLES +/- 1 DEGREE	SIGNATURES	DATE	MODIFIED CAMBRIDGE IC SENSOR BLUEPRINT 010-0004_0003		
			MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA 95039		
	DESIGNED BY: SCOTT JENSEN		SIZE B	RELEASE A	DWG NO 100221141
	LAYOUT BY: JOSE ROSAL		SCALE 1 - 1		SHEET 1 - 1