

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 2 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 RED, BOTH SIDES.

6. PLATING FINISH:

a. HOT AIR SOLDER LEVELING (HASL) SN63A SnPb SOLDER.

b. IMMERSION SILVER 1Ag.

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.

REVISIONS

REV	DESCRIPTION	DATE	APPROVED

1-4

L1: TOP CONDUCTOR - COPPER 2.7 MIL
* DIELECTRIC - FR-4 5.1 MIL
* DIELECTRIC - FR-4 4.3 MIL
L2: IN1 CONDUCTOR - COPPER 2.7 MIL

* DIELECTRIC - FR-4 31 MIL

L3: IN2 CONDUCTOR - COPPER 2.7 MIL
* DIELECTRIC - FR-4 4.3 MIL
* DIELECTRIC - FR-4 5.1 MIL
L4: BOTTOM CONDUCTOR - COPPER 2.7 MIL

DESIGN CROSS SECTION CHART
TOTAL THICKNESS 60.6 MIL

DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
o	15.0	PLATED	105
20	20.0	PLATED	18
T28	28.0	PLATED	56
T42	42.0	PLATED	12
T43	43.0	PLATED	14
T65	65.0	PLATED	28
T71	71.0	PLATED	3
209	209.0	PLATED	3
220	220.0	NON-PLATED	4
325	325.0	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
FRACTIONS +

SIGNATURES

DATE

DESIGNED BY: SCOTT JENSEN

LAYOUT BY: JOSE ROSAL

POWER BOUY: BOOST BRIDGE MODULE

MONTEREY BAY AQUARIUM RESEARCH INSTITUTE
7700 SANDHOLDT ROAD
MOSS LANDING, CA

SIZE B RELEASE A DWG NO 11021174

SCALE 1 - 1 SHEET 1 - 1