

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 0.092" +/- 10%

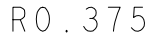
4. LEGEND:
a. WHITE NON-CONDUCTIVE EPOXY INK BOTH SIDES.

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 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.



R0.031

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L1: TOP CONDUCTOR - COPPER 2.7 MIL
    PREPREG 2116 - FR-4 5.1 MIL
    PREPREG 2116 - FR-4 4.3 MIL
L2: GND 1 CONDUCTOR - COPPER 2.7 MIL
    PREPREG 2116 - FR-4 4.3 MIL
    PREPREG 2116 - FR-4 3.2 MIL
L3: IN-ROUTE 1 CONDUCTOR - COPPER 2.7 MIL

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* DIELECTRIC - FR-4 39 MIL

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L4: PWR CONDUCTOR - COPPER 2.7 MIL
    PREPREG 2116 - FR-4 4.3 MIL
    PREPREG 2116 - FR-4 4.3 MIL
L5: GND 2 CONDUCTOR - COPPER 2.7 MIL
    PREPREG 2116 - FR-4 4.3 MIL
    PREPREG 2116 - FR-4 5.1 MIL
L6: BOTTOM CONDUCTOR - COPPER 2.7 MIL

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DESIGN CROSS SECTION CHART
TOTAL THICKNESS 90.1 MIL

DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
10	10.0	PLATED	1342
128	28.0	PLATED	3
140	40.0	PLATED	7
143	43.0	PLATED	11
144	44.0	PLATED	313
147	47.0	PLATED	72
52	52.0	PLATED	6
163	63.0	PLATED	8
129	129.0	NON-PLATED	16
316	316.0	NON-PLATED	4
516	516.0	NON-PLATED	1

DRILL TOLERANCE: $\pm 0.005"$

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE	LRAUV - BATTERY PACK CONTROLLER				
DIMENSIONS ARE IN INCHES			MONTEREY BAY AQUARIUM RESEARCH INSTITUTE 7700 SANDHOLDT ROAD MOSS LANDING, CA				
TOLERANCES ON:							
2 PL DECIMALS +/- 0.02"							
3 PL DECIMALS +/- 0.005"					SIZE C	RELEASE A	DWG NO 10021057-BPC1
ANGLES +/- 1 Degree			SCALE 1 - 1				SHEET 1 - 1
FRACTIONS ,							
	DESIGNED BY: DENIS KLIMOV						
	LAYOUT BY: JOSE ROSAL						