

NOTES (UNLESS OTHERWISE SPECIFIED):

GENERAL

- 1) RIGID-FLEX PORTION IS 6 LAYER
- 2) FLEX PORTION IS 4 LAYER
- 3) NO SOLDER MASK OR OVERLAY LAYERS
- 4)
- 5) THE PHOTO TOOL SHALL NOT BE COMPENSATED WITHOUT PRIOR ENGINEERING APPROVAL.  
PCB DESIGNER: RICH LOEBL PH (805) 305-1393 FAX (805) 961-1792.

FABRICATION TOLERANCES

- 6) END PRODUCT CONDUCTOR WIDTHS AND PAD DIAMETERS SHALL NOT VARY MORE THAN 0.002" FROM THE 1:1 DIMENSIONS OF THE MASTER ARTWORK.
- 7) THE CONDUCTIVE PATTERN SHALL BE POSITIONED SO THAT THE LOCATION OF ANY PAD OR LAND SHALL BE WITHIN 0.005" DIAMETER TO THE TRUE POSITION OF THE HOLE IT CIRCUMSCRIBES.
- 8) ALL DRILL HOLE SIZES AND TOLERANCES APPLY AFTER PLATING.
- 9) THE MINIMUM ANNULAR RING SHALL BE 0.005".
- 10) BOW AND TWIST SHALL NOT EXCEED 0.010" PER INCH.
- 11) FOR PCB ROUTING DIMENSIONS: .XXX = +/- .005" .XX = +/- .020"

MATERIAL

- 12) RIGID SECTIONS  
BASE LAMINATE: ARLON 89N (DO NOT USE 89N PRE-PREG)  
PRE-PREG: ARLON 38N

- 13) FLEX SECTIONS  
FLEX LAMINATE: DUPONT PYRALUX AP9111  
ADHESIVE: DUPONT PYRALUX LF0200

PLATING

- 14) ALL HOLES AND CONDUCTIVE SURFACES SHALL BE PLATED WITH A MINIMUM OF 0.001" COPPER.
- 15) ALL EXPOSED HOLES AND CONDUCTIVE SURFACES SHALL BE COATED WITH A GOLD IMMERSION PLATING TO PRESERVE SOLDERABILITY.

COATINGS

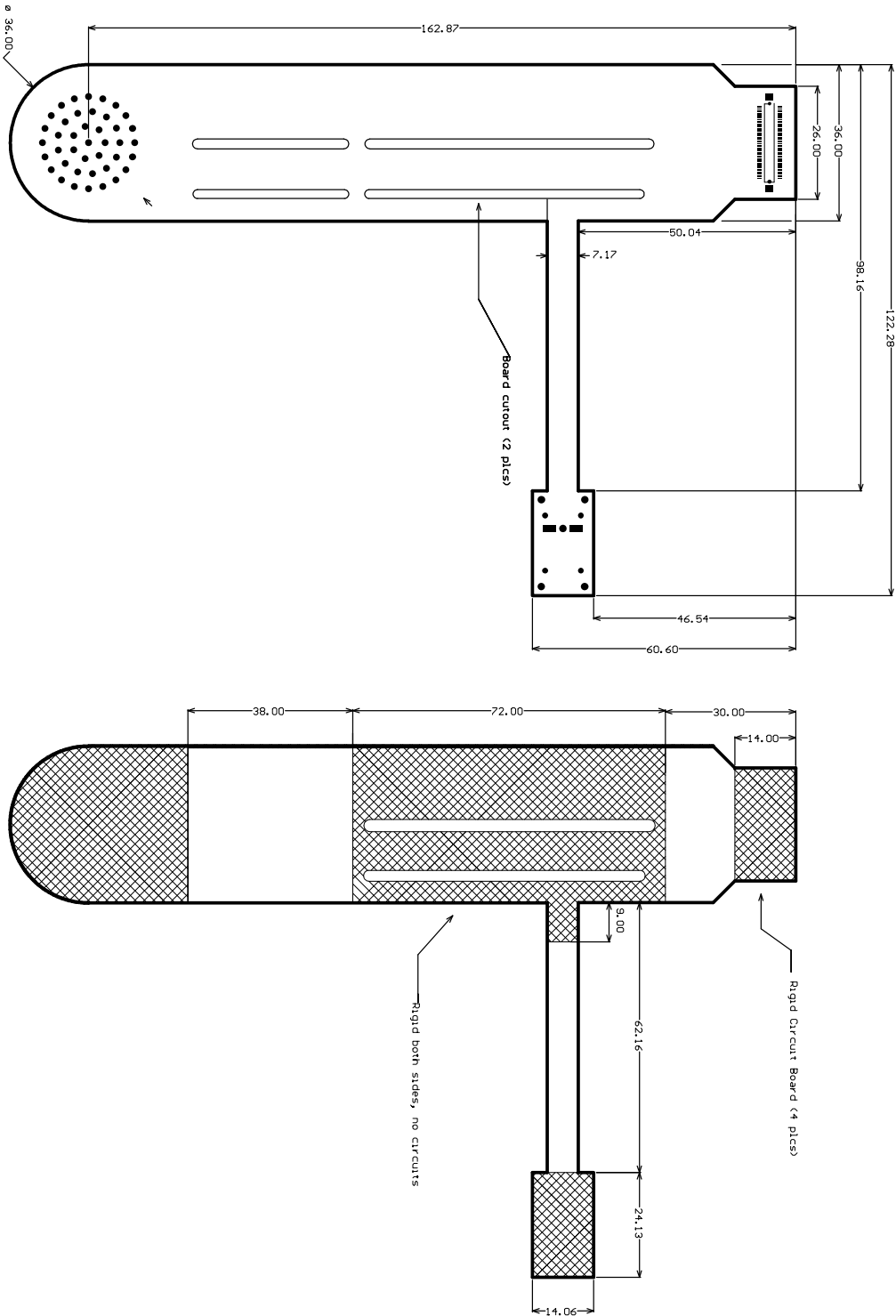
- 16) NO SOLDERMASK

MARKING

- 18) NO SILKSCREEN
- 19)
- 20)

ELECTRICAL TESTING

- 21) ALL BOARDS SHALL BE ELECTRICALLY TESTED TO THE SUPPLIED PC-D-356A NET LIST FOR CONTINUITY, OPENS AND SHORTS.



Layer Stack Up Detail for: Flex\_Circuit.pcbDoc

Copper Cladding		
Layer Name		
Top Layer (*.GTL)	RIGID	1 oz.
Mid-Layer 1 (*.G1)	FLEX	1 oz.
Mid-Layer 2 (*.G2)	FLEX	1 oz.
Mid-Layer 3 (*.G3)	FLEX	1 oz.
Mid-Layer 4 (*.G4)	FLEX	1 oz.
Bottom Layer (*.GBL)	RIGID	1 oz.

PRIMARY PCB SPECIFICATIONS

(REFER TO COMPLETE SPEC LISTING AT LEFT FOR FURTHER DETAILS)

- |                    |                 |
|--------------------|-----------------|
| NUMBER OF LAYERS   | 6               |
| FINISHED THICKNESS | .062"           |
| BASE MATERIAL      | SEE NOTES ABOVE |
| PLATING TYPE       | GOLD IMMERSION  |
| SOLDER MASK COLOR  | NO SOLDER MASK  |

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**Las Cumbres Observatory**  
Galileo Telescope Network

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DATE	7/11/2013	DESIGNED	Rich Label	STATUS	Rich Label	SCALE	1 : 1
DESIGNED		APPROVED					
TITLE	175-00030 rev3, FLEX CIRCUIT, SINISTRO						
REV	C	DATE		REV	3	DATE	1 OF X