

NOTES (UNLESS OTHERWISE SPECIFIED):

GENERAL

- 1) PCB IS 6-LAYER, .062" THICK,

- 1) Fice is deficient and thinks.

 2) Constructions is Solder-Mask-Over-Bare-Copper (smode).

 3) ACCEPTABLITY SHALL BE BASED ON PC-A-BOD, CLASS 2.

 4) THE FOLLOWING GENEER RS27X PHOTO TOOL FLES SHALL BE USED TO DEFINE ALL CROUT FEATURES.
 - *.GTL TOP LAYER GERBER DATA *.G1 MD LAYER 1 GERBER DATA

 - *.GP1 INTERNAL PLANE LAYER 1 GERBER DATA
 - *.GP2 INTERNAL PLANE LAYER 2 GERBER DATA
 - *.GP3- INTERNAL PLANE LAYER 3 GERBER DATA
 - *.GBL BOTTOM LAYER GERBER DATA *.GTO TOP OVERLAY GERBER DATA

 - *.GTS TOP SOLDER MASK GERBER DATA
 - *.GTP TOP-SIDE SOLDER PASTE MASK
 - *GBO BOTTOM OVERLAY GERBER DATA
 - *.GBS BOTTOM SOLDER MASK GERBER DATA
 - *.GBP BOTTOM-SIDE SOLDER PASTE MASK
- 5) THE PHOTO TOOL SHALL NOT BE COMPENSATED WITHOUT PRIOR ENGINEERING APPROVAL. PCB DESIGNER: RICH LOBDILL PH (805) 880-1621 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) BASE MATERIAL IS FR4 EPOXY FIBERGLASS
 13) SEE STACK-UP LEGEND FOR COPPER CLADDING CALL OUTS

PLATING

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

COATINGS

- 16) THE SOLDERMASK SHALL BE BLACK LIQUID PHOTO-MAGEABLE PER IPC-SM-840, TYPE-B, CLASS 2.
- 17) THE SOLDERMASK REGISTRATION ALLOWANCE IS 0.003". THERE SHALL BE NO SOLDERMASK ON ANY SOLDER PAD OR LAND.

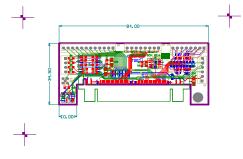
MARKING

- 18) THE LEGEND SHALL BE SCREEN-PRINTED USING PERMANENT YELLOW EPOXY INK.
- 19) THE SCREEN PRINTING REGISTRATION ALLOWANCE IS 0.007". THERE SHALL BE NO INK ON ANY SOLDER PAD OR LAND
- 20) THE VENDOR CODE AND UL FLAMMABILITY RATING MAY BE ETCHED IN THE FOIL OR MARKED IN PERMANENT EPOXY INK (VENDOR'S OPTION).

ELECTRICAL TESTING

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

Layer Name	COPPER THICKNESS
Top Layer (*.GTL)	1/2 oz
Mid-Layer 1 (*.G1)	1 02
Internal Plane 1 (*.GP1)	1 02
Internal Plane 2 (GP2)	1 02
Internal Plane 3 (GP3) (GP3)	1 02
Bottom Layer (GBL)	1/2 oz



175-00016_Rev1, SuperFin GPIO Apps Brd LAS CUMBRES OBSERVATORY 11/18/2010

*CFO--MEDPHOWERN ADSIGNATION TO A TA

PRIMARY PCB SPECIFICATIONS (REFER TO COMPLETE SPEC LISTING AT LEFT FOR FURTHER DETAILS) NUMBER OF LAYERS -6 FINISHED THICKNESS .062" BASE MATERIAL FR4 GOLD IMMERSION PLATING TYPE

BLACK

SOLDER MASK COLOR -



NOTICE

THIS DRAWNG EMBODES A PROPRETARY DESGN OWNED BY LAS CUMBRES
DBSERVATORY, IT IS SUBMITTED FOR A SPECFIC PURPOSE UNDER A CONFIDENTIAL RELATION-SHE, AND EXCEPT FOR PURPOSES DYPRESSLY CRANITED
IN MISTRICA, LIR GRITS ARE RESERVED BY LAS CUMBRES DISSERVATORY.

LCO p/n	Quantity	Designator
		C1, C2, C11, C12,
120-00002	7	C13, C14, C17
120 00042	0	C3, C4, C5, C6, C7
120-00043		C8, C9, C10
120-00001		C15, C16, C18
140-00011	1	D1
125-00059	1	J1
125-00047	2	P1, P5
125-00033	1	P2
125-00037	1	P4
125-00055	1	P6
125-00054	1	P7
		R1, R2, R4, R7, R10,
181-01002	6	R13
181-01502	4	R3, R6, R9, R12
181-04990	4	R5, R8, R11, R14
181-049R9	1	R15
		DNA DNO DNO
100 000 10	_	RN1, RN2, RN3,
180-00043	/	RN4, RN5, RN6, RN
185-00011	1	S1
185-00010	1	\$2
150-00067	1	U1
150-00077	1	U2
150-00076	1	U3