FAB NOTES:

1. ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE NOTED.
2. THE PWB SHALL BE FABRICATED TO IPC-6012, CLASS 2 AND WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2. CURRENT REVISIONS.
3. BOARD MATERIAL SHALL BE 180 Tg/350 Td ISOLA FR-370HR OR EQUIVALENT, RoHS COMPLIANT AND LEAD FREE ASSEMBLY CAPABLE. BOARD MATERIAL SHALL MEET OR EXCEED IPC-4101B. COLOR: NATURAL.
4. BOARD MATERIAL & CONSTRUCTION TO BE U.L. APPROVED AND MARKED ON THE FINISHED BOARD.
5. MINIMUM COPPER WALL THICKNESS OF PLATED-THRU HOLES TO BE .001 INCH, WITH A MINIMUM ANNULAR RING OF .002 INCH.
6. OVERALL BOARD THICKNESS TO BE .062 +/- 10% AND APPLIES AFTER ALL LAMINATION AND PLATING PROCESSES, MEASURED FROM COPPER TO COPPER.
7. MAX. WARP & TWIST TO BE .0075 INCHES PER INCH.
8. BOARD MUST BE ELECTRICALLY TESTED USING SUPPLIED IPC-D-356 NETLIST.
9. ALL VIAS TO HAVE SOLDERMASK.

FINISHED AS SMOOTH WALL BY VEDOR.

PROCESS NOTES:

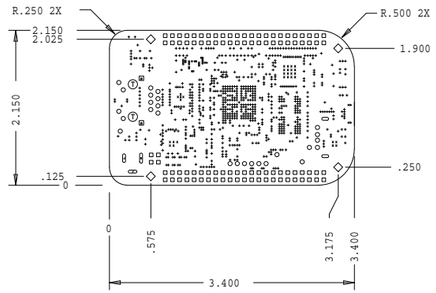
1. PLATE ALL EXPOSED AREAS WITH ELECTROLESS IMMERSION GOLD, NICKEL 150 MICROINCHES THK MIN GOLD 5-15 MICROINCHES THK MIN.
2. APPLY LPI SOLDERMASK OVER BARE COPPER (SMOBC), COLOR: BLACK. SOLDERMASK SHALL CONFIRM TO IPC-SM-840. CLASS H. CURRENT REV.
3. SOLDERMASK ARTWORK HAS ZERO (0) OVERSIZED PADS. FABRICATION VENDOR IS ALLOWED TO ADJUST THE COMPONENT SOLDERMASK PADS TO MEET THEIR TOOLING REQUIREMENTS.
4. APPLY LPI SILKSCREEN OR EQUIVALENT PER THE ARTWORK. COLOR: WHITE.

LAYER STACK-UP - ALL DIMENSIONS IN INCHES

		50ohm SINGLE ENDED IMPEDANCE CONTROL +/- 10%	90ohm DIFFERENTIAL IMPEDANCE CONTROL +/- 10%	100ohm DIFFERENTIAL IMPEDANCE CONTROL +/- 10%
LAYER#	COPPER WEIGHT (OZ)	TRACE WIDTH	TRACE WIDTH / SPACE	TRACE WIDTH / SPACE
LAYER 1 - PRIMARY SIDE - SIGNAL	HALF+PLATING	4.75	4.5/6.5	3.75/7.25
LAYER 2 - GROUND PLANE	1			
LAYER 3 - SIGNAL	1	5.25	5.0/7.0	4.00/8.00
LAYER 4 - SIGNAL	1	5.25	5.0/7.0	4.00/8.00
LAYER 5 - SPLIT POWER PLANE	1			
LAYER 6 - SECONDARY SIDE - SIGNAL	HALF+PLATING	4.75	4.5/6.5	3.75/7.25

DRILL CHART: TOP to BOTTOM
ALL UNITS ARE IN MILS

FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	6.0	+3.0/-3.0	PLATED	27
·	8.0	+3.0/-3.0	PLATED	794
·	12.0	+3.0/-3.0	PLATED	30
□	30.0	+3.0/-3.0	PLATED	96
○	40.0	+3.0/-3.0	PLATED	26
⊠	63.0	+3.0/-3.0	PLATED	2
◇	125.0	+3.0/-3.0	PLATED	4
Ⓣ	128.0	+5.0/-5.0	NON-PLATED	2
▭	50.0x15.0	+3.0/-3.0	PLATED	2
⬭	95.0x40.0	+3.0/-3.0	PLATED	2
▯	120.0x40.0	+3.0/-3.0	PLATED	1
⬭	120.0x40.0	+3.0/-3.0	PLATED	1
▯	140.0x40.0	+3.0/-3.0	PLATED	1



DATE	04/02/13	APPROVED	
DESIGN ENGR		CHECKED	
PROJECT ENGR		DRAFTING	CalCad
ENGR MGR		ENGR	
NEXT ASSEMBLY		TOLERANCES UNLESS OTHERWISE SPECIFIED: X.XX ± 0.01, X.XXX ± 0.005, ANGLES ± 1/2°. DO NOT SCALE DRAWING	

CIRCUITCO.

FABRICATION DRAWING,
BeagleBone Black

SCALE	NONE	PCB REV B4	SIZE D
SHEET	1 OF 1		