10 11 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. ALL VIAS UNDER BGA'S, L12, L15, L16 AND CONNECTORS SHALL BE FILLED WITH EPOXY. FINISHED AS SMOOTH WALL BY VENDOR. PROCESS NOTES: 1. PLATE ALL EXPOSED AREAS WITH ELECTROLESS 5.200 IMMERSION GOLD, NICKEL 150 MICROINCHES THK MIN GOLD 5-15 MICROINCHES THK MIN. DRILL CHART: TOP to BOTTOM
ALL UNITS ARE IN MILS
TOLERANCE APPLY LPI SOLDERMASK OVER BARE COPPER (SMOBC), COLOR: BLUE. SOLDERMASK SHALL CONFIRM TO IPC-SM-840. 4.050 <u></u> CLASS H. CURRENT REV. 3. SOLDERMASK ARTWORK HAS ZERO (0) OVERSIZED PADS. 3.800 FABRICATION VENDOR IS ALLOWED TO ADJUST THE COMPONENT 6 9 SEE NOTE 9 SOLDERMASK PADS TO MEET THEIR TOOLING REQUIREMENTS. 4. APPLY LPI SILKSCREEN OR EQUIVALENT PER THE ARTWORK. LAYER STACK-UP - ALL DIMENSIONS IN MILS 100ohm DIFFERENTIAI IMPEDANCE CONTROL +/- 10% 4.200 M 18...B. LAYER# TRACE WIDTH TRACE WIDTH / SPACE TRACE WIDTH / SPACE TRACE WIDTH / SPACE LAYER 1 - PRIMARY SIDE - SIGNAL 4.51/4.49 3.51/6.99 4.50 4.31/5.69 HALF+PLATING LAYER 2 - GROUND PLANE 1/2 LAYER 3 - INNER SIGNAL 4 30 5.01/4.99 3.76/6.24 LAYER 4 - POWER PLANE LAYER 5 - POWER PLANE LAYER 6 - INNER SIGNAL 4.30 5.01/4.99 4.51/5.49 1/2 LAYER 7 - GROUND PLANE 4.51/4.49 4.31/5.69 LAYER 8 - SECONDARY SIDE - SIGNAL 650 400 150 SCORE DETAIL "A" 2 PLACES SCALE=NONE This work is licensed under the Creative Commons Attribution-Share Alike 3.0 Unported License To view a copy of this license, visit http://creativecommons.org/licenses/by-sa/3.0/ or send a letter to Creative Commons, 171 Second Street, Suite 300, San Francisco, California, 94105, USA. All derivative works are to be attributed to CreuitCo LUC.
For more information, see http://creativecommons.org/license/results-one?license_code-by-sa APPROVED CIRCUITCO. CHECKED G DRAFTING CalCad FABRICATION DRAWING, DATE 08/14/13 ENGR DESIGN ENGR Minnow Rev A PROJECT ENGR X.XX ± 0.01 X.XXX ± 0.005 ANGLES ± 1/2° ENGR MGR SCALE NONE 000-0002806 D SHEET 1 OF 1 NEXT ASSEMBLY 8 11 10