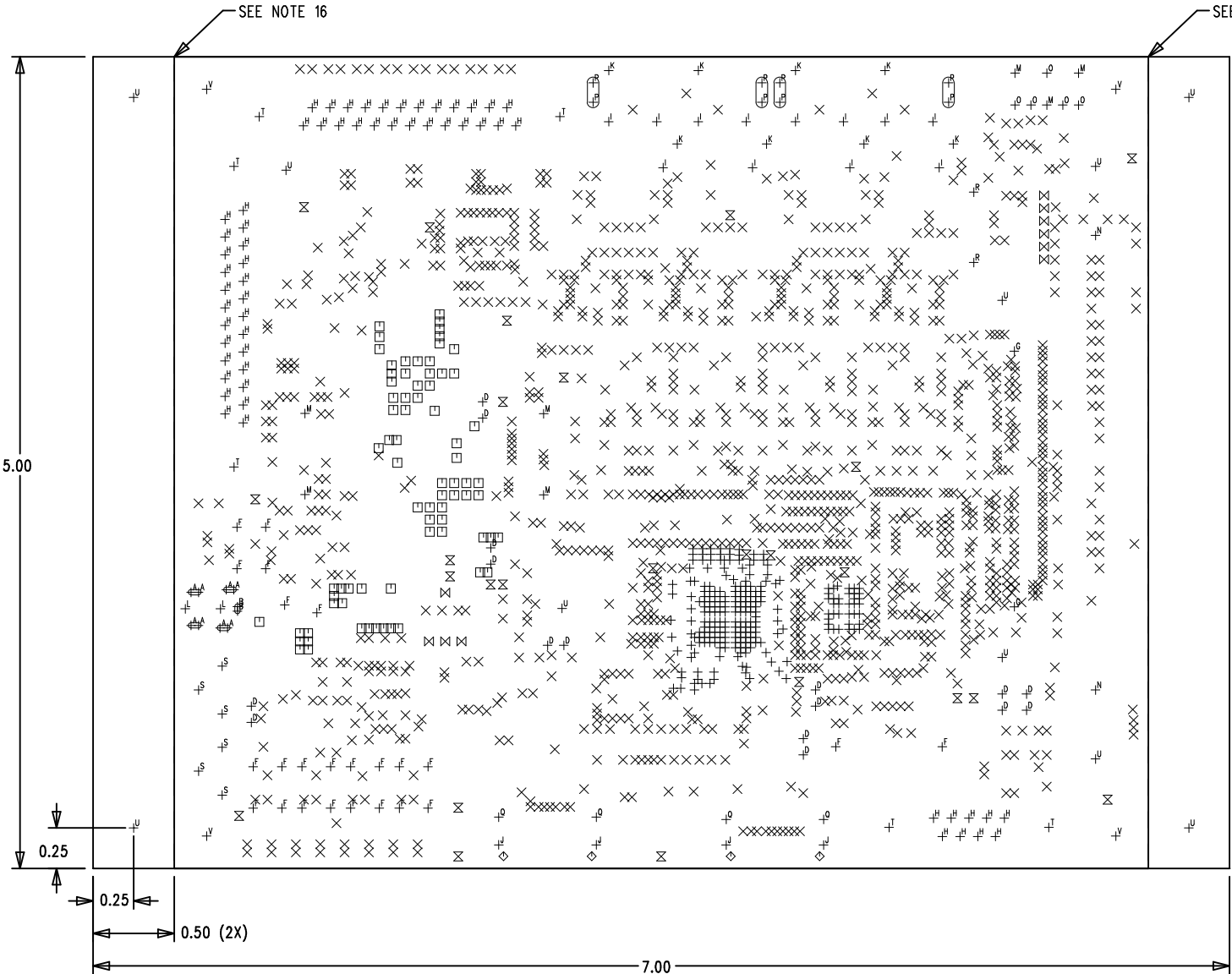


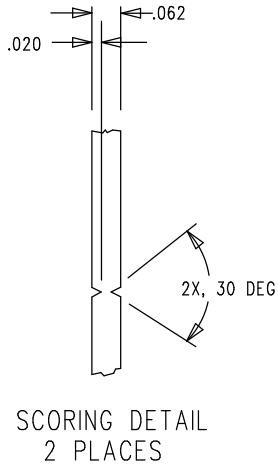
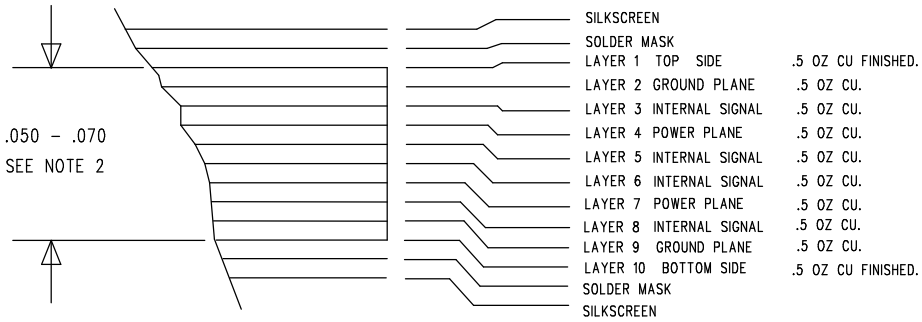
| REVISIONS | | | | |
|-----------|-----------------------|--------|----------|----------|
| REV | DESCRIPTION OF CHANGE | DRFTR | DATE | APPROVED |
| 0.1 | NEW RELEASE | C.C.D. | 10/16/09 | |
| | | | | |


| SIZE | QTY | SYM | PLATED | TOL |
|---------------|------|----------------|--------|----------|
| 0.008 | 238 | + | YES | +/-0.003 |
| 0.012 | 1371 | X | YES | +/-0.003 |
| 0.02 | 75 | □ | YES | +/-0.003 |
| 0.025 | 4 | ◇ | YES | +/-0.003 |
| 0.028 | 25 | ⊠ | YES | +/-0.003 |
| 0.032 | 10 | ⊠ | YES | +/-0.003 |
| 0.032 x 0.078 | 4 | + ^A | YES | +/-0.003 |
| 0.032 x 0.06 | 1 | + ^B | YES | +/-0.003 |
| 0.038 | 16 | + ^D | YES | +/-0.003 |
| 0.043 | 24 | + ^F | YES | +/-0.003 |
| 0.046 | 2 | + ^G | NO | +/-0.003 |
| 0.047 | 59 | + ^H | YES | +/-0.003 |
| 0.051 | 12 | + ^I | YES | +/-0.003 |
| 0.057 | 4 | + ^J | NO | +/-0.003 |
| 0.059 | 8 | + ^K | YES | +/-0.003 |
| 0.063 | 2 | + ^L | NO | +/-0.003 |
| 0.068 | 7 | + ^M | NO | +/-0.003 |
| 0.07 | 2 | + ^N | NO | +/-0.003 |
| 0.071 x 0.19 | 4 | + ^P | NO | +/-0.003 |
| 0.071 | 5 | + ^O | YES | +/-0.003 |
| 0.075 | 4 | + ^Q | YES | +/-0.003 |
| 0.079 | 2 | + ^R | YES | +/-0.003 |
| 0.085 | 6 | + ^S | YES | +/-0.003 |
| 0.125 | 6 | + ^T | YES | +/-0.005 |
| 0.125 | 10 | + ^U | NO | +/-0.005 |
| 0.156 | 4 | + ^V | NO | +/-0.005 |



- UNLESS OTHERWISE SPECIFIED
- BOARD TO BE FABRICATED PER IPC-6012B, CLASS 2.
 - MATERIAL: FR-370HR OR EQUIVALENT. OUTER LAYERS 1/2 OZ/SQFT CU INNER LAYERS 1/2 OZ/SQFT CU FINISHED .062 (.050 MIN .070 MAX SEE DETAIL). VENDOR MAY ADJUST THICKNESS TO FULFILL NOTE 9.
 - PLATING: ADDITIONAL CU PLATING 1 OZ/SQFT ALL HOLES PLATED THROUGH, EXCEPT AS NOTED IN HOLE LEGEND. MINIMUM PTH BARREL THICKNESS = 0.0008" MINIMUM AVERAGE PER IPC-6012B WITH AMENDMENT 1, CLASS 2 REQUIREMENTS. WITH NO SINGLE MEASUREMENT LESS THAN 0.00071 IN THE PLATED HOLES.
 - FINISH: SURFACES TO BE COATED BY ENIG OF 3 TO 5 MICROINCHES OVER A MINIMUM OF 150-200 MICROINCHES OF LOW STRESS NICKEL.
 - SOLDERMASK: SOLDER MASK TO BE TRANSPARENT GREEN LPI BOTH SIDES PER GERBER FILES.
 - SILKSCREEN: WHITE EPOXY INK, APPLY TO BOTH SIDES PER GERBER FILES.
 - ARTWORK: MINIMUM FEATURE SIZE = 0.005 MINIMUM AIR GAP = 0.004
 - ALL DIMENSIONS ARE IN INCHES.
 - CONTROLLED IMPEDANCE: BOARD TO BE BUILT TO YIELD CONTROLLED IMPEDANCE OF 60 OHMS +/-10% (SINGLE ENDED) ON ALL .005" LINE WIDTHS.
 - NON-FUNCTIONAL COPPER THIEVING IS ALLOWED ON OPEN AREAS.
 - VIAS SHOULD BE COVERED ACCORDING TO ONE OF THE FOLLOWING METHODS. METHOD 1 IS PREFERRED. METHOD 1: VIAS MUST BE FILLED WITH SOLDERMASK MATERIAL AFTER ELECTROLESS NICKEL/IMMERSION GOLD AND BEFORE PRIMARY LPI MASK. AFTER THE FILL IS CURED, THE PRIMARY MASK IS THEN APPLIED WITH NO VIA APERTURES BOTH SIDES. METHOD 2: AFTER APPLICATION OF FULL BODY ELECTROLESS NICKEL/IMMERSION GOLD, APPLY PRIMARY MASK WITH REDUCED VIA APERTURES THAT ARE 6 MILS LARGER THAN DRILLED HOLE DIAMETER BOTH SIDES. THEN APPLY SOLDER MASK PLUG ON COMPONENT SIDE.
 - VIA HOLES (.008 & .012) REQUIRE TANGENCY ONLY, INSTEAD OF ANNULAR RING.
 - TEARDROP PADS ARE ACCEPTABLE WHERE NEEDED.
 - REMOVAL OF NON-FUNCTIONAL PADS ON LAYERS 3, 5, 6, AND 8 IS ACCEPTABLE.
 - USE IPC-D-356A NETLIST AS SUPPLIED FOR CHECKING.
 - V SCORE 1 LINE ON BOTH SIDES OF THE BOARD. SEE DETAIL.
 - BUILD AS 1-UP PCB.
 - THE FOLLOWING NETS ARE INTENTIONALLY SHORTED AND RESULT IN IPC NETLIST ERRORS: AT W1 : GND & PGND (LAYER 1) AT W2 : GND & PGND2 (LAYER 1)
 - UNUSED PINS ARE TIED TO A NET CALLED "NOT_CONNECTED" AND BROUGHT OUT TO VIAS. THIS RESULTS IN IPC NETLIST ERRORS. THESE ARE INTENTIONAL.

10 LAYER CONSTRUCTION DETAIL
SCALE : NONE



| | | | | | |
|--|-----------------|----------|--|------------------------|-------------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE : .XX +/- .010 .XXX +/- .005 | CONTRACT NO. | |  20 Cotton Road Nashua, New Hampshire 03063 (603) 883-2430 FAX (603) 882-2655 | | |
| | APPROVALS | DATE | | | |
| MATERIAL SEE NOTES | DRAWN C.C.D. | 10/16/09 | FABRICATION DRAWING ADSP-21479 EZ-BOARD | | |
| FINISH SEE NOTES | CHECKED | | | | |
| DO NOT SCALE THIS DRAWING | ENGINEERING | | SIZE B | DWG. NO. A0229-2009 | REV. 0.1 |
| | QUALITY | | SCALE 1 : 1 | SHEET 1 OF 1 | |