


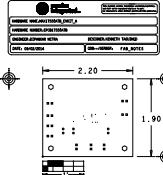


| 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | <table><tr><th colspan="4">REVISIONS</th></tr><tr><th>REV</th><th>DESCRIPTION</th><th>APPROVED</th><th>DATE</th></tr><tr><td>A</td><td>RELEASE</td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td></tr></table> | | REVISIONS | | | | REV | DESCRIPTION | APPROVED | DATE | A | RELEASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| A | RELEASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| | | | | | | <p>NOTES: UNLESS OTHERWISE SPECIFIED</p> <p>1. DIMENSIONS ARE IN INCHES (EXCEPT WHERE NOTED).</p> <p>MATERIAL: (USE CHECKED ITEMS FOR MATERIAL)</p> <p>2. BOARD MATERIAL:</p> <p>(X) FR4 (RHS COMPLIANT) OR EQUIVALENT</p> <p>() ISOLA-FR4000H</p> <p>() NCLCO-4000-13 OR EQUIVALENT</p> <p>() J7000H (RHS COMPLIANT) OR EQUIVALENT</p> <p>() ROGERS 4350B</p> <p>() ROGERS 4003C</p> <p>() OTHER _____</p> <p>3. THE PCB SHALL BE FABRICATED TO IPC-4101D, TYPE B, CLASS 2, WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2, CURRENT REVISIONS.</p> <p>4. BOARD MATERIAL & CONSTRUCTION SHALL MEET THE REQUIREMENTS OF ULTM WITH FLAMMABILITY RATING OF 94V-0.</p> <p>5. OVERALL BOARD THICKNESS REFER TO LAMINATION DIAGRAM. TOLERANCE APPLIES AFTER ALL LAMINATION AND PLATING PROCESSES. IT IS TO BE MEASURED FROM TOP P26 METAL TO BOTTOM PCB METAL, UNLESS OTHERWISE SPECIFIED.</p> <p>6. ROW & TRIST NOT TO EXCEED 0.0075 IN. (1.75%) PER LINEAR INCH. ROW & TRIST SHOULD BE MEASURED PER IPC-1845G, METHOD 2.4.22.</p> <p>TOOLING: (USE CHECKED ITEMS FOR TOOLING)</p> <p>7. PHOTO ETCH CIRCUITRY PER ENCLOSED VERNER HIZF40 OR GDR+ FORMAT FILE. DRILL LOCATION AND SIZE CONTROLLED BY EXCELLEN CNC DRILL FILE.</p> <p>8. IF STATED IN THE LAMINATION DIAGRAM, THE DIELECTRIC THICKNESS OF ANY CONTROLLED IMPEDANCE LAYER IS FOR REFERENCE ONLY. FINAL ACCEPTANCE SHALL BE DETERMINED BY THESE LAYERS HAVING A CHARACTERISTIC IMPEDANCE OF +/-10% OHMS AS STATED IN THE LAMINATION DIAGRAM. THE VENDOR CAN MAKE ADJUSTMENTS AS LONG AS THE STATED IMPEDANCE AND OVERALL BOARD THICKNESS IS MAINTAINED. ANY ADJUSTMENT MADE TO TRACE WIDTH OR SPACING MUST HAVE PRIOR WRITTEN APPROVAL FROM MAXIM.</p> <p>9. ALL TRACES FILLETED OPTION TO ENHANCE RELIABILITY AT PAD JUNCTIONS WHERE SPACING PERMITS. UNLESS OTHERWISE SPECIFIED:</p> <p>() FILLETED</p> <p>(X) NOT FILLETED</p> <p>10. LAYER TO LAYER REGISTRATIONS SHALL BE WITHIN .003 INCHES. LEGEND TO LEGEND +/- 0.007 INCHES</p> <p>FINISH: (USE CHECKED ITEMS FOR PLATING)</p> <p>11. PLATING SPECIFICATION:</p> <p>(X) STARTING AND FINISH COPPER WEIGHT FOR OUTER LAYERS TO BE (1 OZ). FOR OUTER LAYERS WHERE SPACING PREVENTS THE USE OF (1 OZ) AS A STARTING WEIGHT THE STARTING WEIGHT CAN BE (0.5 OZ) AS LONG AS THE FINISH COPPER WEIGHT IS (1 OZ) UNLESS OTHERWISE SPECIFIED</p> <p>() STARTING COPPER WEIGHT FOR OUTER LAYERS CAN BE (1 OZ). THE FINISH COPPER WEIGHT IS (2 OZ). FOR OUTER LAYERS WHERE SPACING PREVENTS THE USE OF (1 OZ) AS A STARTING WEIGHT, THE STARTING WEIGHT CAN BE (0.5 OZ) AS LONG AS THE FINISH COPPER WEIGHT IS (2 OZ). UNLESS OTHERWISE SPECIFIED</p> <p>() STARTING COPPER WEIGHT FOR OUTER LAYERS TO BE (2 OZ). THE FINISH COPPER WEIGHT IS (2 OZ) MINIMUM. FOR OUTER LAYERS WHERE SPACING PREVENTS THE USE OF (1 OZ) AS A STARTING WEIGHT, THE STARTING WEIGHT CAN BE (1/2 OZ) AS LONG AS THE FINISH COPPER WEIGHT IS (2 OZ). UNLESS OTHERWISE SPECIFIED</p> <p>() OTHER _____</p> <p>12. CHECK ALL THAT APPLY</p> <p>() FINISH CONDUCTOR SURFACES: IMMERSION GOLD, 3-8 MICRO INCHES OVER 100 MICRO INCHES MINIMUM OF ELECTROLESS NICKEL.</p> <p>(X) LEAD FREE AND HAS COMPLIANT OR EQUIVALENT LEAD FREE PLATING</p> <p>() ELECTRODEPOSITED HARD GOLD PLATE, TYPE 1 (89.7% MIN GOLD), GRADE C (MINOR HARDNESS 150-200), CLASS 3 (50-100 MICRO INCHES THICK) IN ACCORDANCE WITH MIL-C-48204C. GENERAL SURFACING REQUIREMENTS MUST MEET ANSI/JPCA-4500/CURRENT REV'S SECTION 4.5, CLASS 3 (50-100 MICROINCHES THICK) OVER ELECTRODEPOSITED NICKEL PLATE IN ACCORDANCE WITH ANSI/JPCA-4500, SECTION 4.5, CLASS 3 (100-400 MICROINCHES THICK).</p> <p>() FINISH CONDUCTOR SURFACES: IMMERSION GOLD, 2-5 MICRO INCHES OVER 118-238 MICRO INCHES MINIMUM OF ELECTROLESS NICKEL.</p> <p>() FINISERS TO BE GOLD PLATED.</p> <p>() OTHER _____</p> <p>13. DRILL SIZES ARE FINISHED HOLE SIZES. ALL HOLES SHALL BE LOCATED WITHIN .005 DTP. MINIMUM BARREL PLATING OF .001 IN. PLATED HOLES SHALL NOT BE ROUGH OR IRREGULAR SO AS TO IMPAIR PROPER SOLDER WELDING.</p> <p>14. CHECK ALL THAT APPLY</p> <p>(X) GREEN SOLDERMASK OVER BARE COPPER/BARE GOLD (BOTH SIDES) WITH LIQUID PHOTO IMAGEABLE INK (LPI) PER ARTWORK.</p> <p>() GREEN PATEO P26-4000</p> <p>15. CHECK ALL THAT APPLY</p> <p>() APPLY SILKSCREEN TO BOTH SIDES USING A NON-CONDUCTIVE, WHITE EPOXY BASED INK PER ARTWORK.</p> <p>(X) APPLY SILKSCREEN TO TOP SIDE USING A NON-CONDUCTIVE, WHITE EPOXY BASED INK PER ARTWORK.</p> <p>() OTHER _____</p> <p>16. VENDOR LOGO & DATE CODE REQUIRED IN INK ON BOTTOM SIDE ONLY. DATE CODE FORMAT MUST BE YYYY MM DD.</p> <p>TESTING:</p> <p>17. FINAL ELECTRICAL TEST TO BE PERFORMED USING PROVIDED IPC-D-356A NETLIST OR GDR+ FORMAT FILE. (REQUIRED UNLESS OTHERWISE SPECIFIED IN QUOTE) THE PCB SHALL HAVE A VERIFICATION STAMP.</p> <p>18. A TIME DOMAIN REFLECTOMETER REPORT FOR EACH IMPEDANCE CONTROLLED LAYER AND A CERTIFICATE OF COMPLIANCE SHALL BE PROVIDED BY VENDOR AT TIME OF SHIPMENT.</p> <p>MISCELLANEOUS: (USE CHECKED ITEMS)</p> <p>19. FOR BLIND AND BURIED VIA INFORMATION REFER TO DRILL CHART.</p> <p>() NON-CONDUCTIVE EPOXY FILL AND CAP ALL 0.1XX INCH DRILLED VIAS.</p> <p>() SILVER FILL AND CAP ALL 0.1XX INCH DRILLED VIAS.</p> <p>20. FOR VIA SIZES XX.XX INCH USE NON CONDUCTIVE VIA FILL AND CAP</p> <p>21. FINISHED SURFACE CONTACTS AND FILLED VIAS TO BE FREE OF ANY PITS, SCRATCHES, PROBE MARKS OR OTHER DEFECTS THAT COULD AFFECT THE APPEARANCE AND PERFORMANCE OF THE CONTACT SURFACE. CONTACTS ARE TO BE AS FLAT AS POSSIBLE, NOT TO EXCEED +/- 0.001" OF FLATNESS.</p> <p>22. THIEVING:</p> <p>() SUPPLIER MAY ADD THIEVING TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN.</p> <p>(X) SUPPLIER MAY NOT ADD THIEVING TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN.</p> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | <table><tr><td colspan="3">TOLERANCES UNLESS OTHERWISE SPECIFIED</td><td colspan="3">THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY TO MAXIM. THE INFORMATION IN THIS DOCUMENT IS NOT TO BE SHOWN, REPRODUCED, OR DISCLOSED TO ANYONE OUTSIDE OF MAXIM WITHOUT PRIOR WRITTEN PERMISSION FROM MAXIM.</td><td colspan="3"></td></tr><tr><td>FRACTIONS</td><td>DECIMALS</td><td>ANGLES</td><td colspan="3">DRAWN BY: RAPHAEL DATE: 05/30/12</td><td colspan="3">TITLE: FABRICATION DWG. MAX17550A1B_EVKIT</td></tr><tr><td>1/16</td><td>.001</td><td>1/16</td><td>CHECKED BY: DATE:</td><td colspan="3">SIZE DRAWING NO. 6</td><td colspan="3">REV E</td></tr><tr><td>MATERIAL:</td><td colspan="2">SEE NOTES</td><td>APPR. BY: DATE:</td><td colspan="3">EPC817550A1B</td><td colspan="3">REV A</td></tr><tr><td>FINISH:</td><td colspan="2">SEE NOTES</td><td>APPR. BY: DATE:</td><td colspan="3">NOT TO SCALE</td><td colspan="3">SHEET 1 OF 1</td></tr></table> | | TOLERANCES UNLESS OTHERWISE SPECIFIED | | | THE INFORMATION CONTAINED IN THIS DOCUMENT IS PROPRIETARY TO MAXIM. THE INFORMATION IN THIS DOCUMENT IS NOT TO BE SHOWN, REPRODUCED, OR DISCLOSED TO ANYONE OUTSIDE OF MAXIM WITHOUT PRIOR WRITTEN PERMISSION FROM MAXIM. | | |  | | | FRACTIONS | DECIMALS | ANGLES | DRAWN BY: RAPHAEL DATE: 05/30/12 | | | TITLE: FABRICATION DWG. MAX17550A1B_EVKIT | | | 1/16 | .001 | 1/16 | CHECKED BY: DATE: | SIZE DRAWING NO. 6 | | | REV E | | | MATERIAL: | SEE NOTES | | APPR. BY: DATE: | EPC817550A1B | | | REV A | | | FINISH: | SEE NOTES | | APPR. BY: DATE: | NOT TO SCALE | | | SHEET 1 OF 1 | | |
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2.20

1.90

| LAMINATION DIAGRAM | | | |
|--------------------|--------|-----|-------------|
| NAME | DATE | REV | DESCRIPTION |
| 1 | TOP | 1 | FOIL |
| 2 | BOTTOM | 1 | FOIL |

THE FINISHED PCB THICKNESS TO BE: 0.0020" +/- 0.010"

| DRILL CHART: TOP 16 BOTTOM | | | | |
|----------------------------|-------|-----------|--------|-----|
| ALL UNITS ARE IN MILS | | | | |
| FIGURE | SIZE | TOLERANCE | PLATED | QTY |
| 1 | 12.0 | +3.0/-3.0 | PLATED | 11 |
| 2 | 39.37 | +3.0/-3.0 | PLATED | 18 |
| 3 | 45.28 | +3.0/-3.0 | PLATED | 6 |
| 4 | 125.0 | +3.0/-3.0 | PLATED | 4 |