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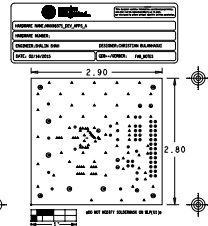
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REVISIONS			
REV	DESCRIPTION	APPROVED	DATE
A	RELEASE		2/20/13

- NOTES:
- UNLESS OTHERWISE SPECIFIED:
- DIMENSIONS ARE IN INCHES (EXCEPT WHERE NOTED).
  - MATERIAL: (SEE CHECKED ITEMS FOR MATERIAL)
  - BOARD MATERIAL:
    - ( ) FR4 (RABS COMPLIANT) OR EQUIVALENT
    - (X) ISOLA-FRABUR
    - ( ) NEMO-HR00-13 OR EQUIVALENT
    - ( ) JYH0 (RABS COMPLIANT) OR EQUIVALENT
    - ( ) ROGERS 4300B
    - ( ) ROGERS 4000C
    - ( ) OTHER
  - THE PCB SHALL BE FABRICATED TO IPC-6012, TYPE I, CLASS 2.
  - MANUFACTURER SHALL CONFORM TO IPC-A-600, CLASS 2, CURRENT REVISIONS.
  - BOARD MATERIAL & CONSTRUCTION SHALL MEET THE REQUIREMENTS OF ULTM WITH FLAMMABILITY RATING OF 94V-0.
  - OVERALL BOARD THICKNESS REFER TO LAMINATION DIAGRAM. TOLERANCE APPLIED AFTER ALL LAMINATION AND PLATING PROCESSES. IT IS TO BE MEASURED FROM TOP PCB METAL TO BOTTOM PCB METAL, UNLESS OTHERWISE SPECIFIED.
  - ROD & TEST NOT TO EXCEED 0.0075 IN. (±.005) PER LINEAR INCH. ROD & TEST SHOULD BE MEASURED PER IPC-1606A, METHOD 2.4.32.
- TOOLING:
- (USE CHECKED ITEMS FOR TOOLING)
- PHOTO ETCH CIRCUITRY PER ENCLOSED GENERAL ROZAR OR 00B++ FORMAT FILE. DRILL LOCATION AND SIZE CONTROLLED BY EXCELLENCE ONE DRILL FILE.
  - IF STATED IN THE LAMINATION DIAGRAM, THE DIELECTRIC THICKNESS OF ANY CONTROLLED IMPEDANCE LAYER IS FOR REFERENCE ONLY. FINAL ACCEPTANCE SHALL BE DETERMINED BY THREE 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.
  - ALL TRACES FILLETED OPTION TO CHANGE RELIABILITY AT PAD JUNCTIONS WHERE SPACING PERMITS. UNLESS OTHERWISE SPECIFIED.
    - ( ) FILLETED
    - (X) NOT FILLETED
  - LAYER TO LAYER REGISTRATIONS SHALL BE WITHIN .003 INCHES. LEGEND TO LEGEND ±.007 INCHES.
- FINISH:
- (USE CHECKED ITEMS FOR PLATING)
- PLATING SPECIFICATION:
    - (X) STARTING COPPER WEIGHT FOR OUTER LAYERS CAN BE (0.5 OZ), THE FINISH COPPER WEIGHT IS (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
    - ( ) 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
    - ( ) 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 (2 OZ) AS A STARTING WEIGHT, THE STARTING WEIGHT CAN BE (1.0 OZ) AS LONG AS THE FINISH COPPER WEIGHT IS (2 OZ). UNLESS OTHERWISE SPECIFIED
    - ( ) OTHER
  - CHECK ALL THAT APPLY:
    - (X) FINISH CONDUCTOR SURFACES: IMMERSION GOLD, 2-6 MICRO INCHES OVER 100 MICRO INCHES MINIMUM OF ELECTROLESS NICKEL.
    - ( ) LEAD FREE AND RABS COMPLIANT OR EQUIVALENT LEAD FREE PLATING
    - ( ) ELECTRODEPOSITED HARD GOLD PLATE, TYPE I (99.7% MIN GOLD), GRADE C (ENHANCED HARDNESS 120-180), CLASS 1 (50-100 MICRO INCHES THICK) IN ACCORDANCE WITH MIL-G-45204C. GENERAL SURFACING REQUIREMENTS MUST MEET ANSI/IPC-A-600 (CURRENT REV) SECTION 4.9, CLASS 3 (50-100 MICROINCHES THICK) OVER ELECTRODEPOSITED NICKEL PLATE IN ACCORDANCE WITH ANSI/IPC-A-600, SECTION 4.9, CLASS 3 (50-100 MICROINCHES THICK).
    - ( ) FINISH CONDUCTOR SURFACES: IMMERSION GOLD, 2-5 MICRO INCHES OVER 100-250 MICRO INCHES MINIMUM OF ELECTROLESS NICKEL.
    - ( ) FINISH TO BE GOLD PLATED.
    - ( ) OTHER
  - DRILL SIZES ARE FINISHED HOLE SIZES. ALL HOLES SHALL BE LOCATED WITHIN .005 DTP. MINIMUM HOLE PLATING OF .001 IN. PLATED HOLES SHALL NOT BE ROUGH OR UNDESIRABLE SO AS TO HINDER PROPER SOLDER WETTING.
  - CHECK ALL THAT APPLY:
    - ( ) GREEN SOLDERMASK OVER BARE COPPER/PAVE GOLD (BOTH SIDES) WITH LIQUID PHOTO IMAGEABLE INK (LPI) PER ARTWORK.
    - (X) GREEN TATTO FOR 4000
    - ( ) OTHER
  - CHECK ALL THAT APPLY:
    - (X) APPLY SILVERGEL USING A NON-CONDUCTIVE, WHITE EPOXY BASED INK PER ARTWORK.
    - ( ) OTHER
  - VENDOR LOGO & DATE CODE REQUIRED IN INK ON BOTTOM SIDE ONLY. DATE CODE FORMAT MUST BE YYYY MM DD.
- TESTING:
- FINAL ELECTRICAL TEST TO BE PERFORMED USING PROVIDED IPC-D-350A METLIST OR 00B++ FORMAT FILE. (REQUIRED UNLESS OTHERWISE SPECIFIED IN QUOTE)
  - THE PCB SHALL HAVE A VERIFICATION STAMP
  - A TIME DOMAIN REFLECTOMETER REPORT FOR EACH IMPEDANCE CONTROLLED LAYER AND A CERTIFICATE OF COMPLIANCE SHALL BE PROVIDED BY VENDOR AT TIME OF SHIPMENT.
- MISCELLANEOUS:
- FOR ALL DRILL INFORMATION REFER TO DRILL CHART.
  - NON-CONDUCTIVE EPOXY, FILL AND CAP ALL 0.005 INCH DRILLED VIAS.
    - (X) SILVER, FILL AND CAP ALL 0.005 INCH DRILLED VIAS.
    - ( ) OTHER
  - IF PRESENT, ALL MICRO-VIAS LESS THAN 0.005 INCHES PDS WHEN USED AS VIA (VIA IN PAD) OR STACKED TO BE PLATED THRU WITH COPPER, UNLESS OTHERWISE SPECIFIED.
  - 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 ±.001" OF FLATNESS.
  - THICKENING:
    - ( ) SUPPLIER MAY ADD THICKENING TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN.
    - (X) SUPPLIER MAY NOT ADD THICKENING TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN.
  - PERMITS:
    - ( ) PERMITS TO BE INSTALLED BY SUPPLIER
    - ( ) PERMITS NOT TO BE INSTALLED BY SUPPLIER
    - (X) N/A



DRILL CHART: TOP TO BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
4	5.0	+3.0/-3.0	PLATED	11
▲	8.0	+3.0/-6.0	PLATED	9
▲	18.0	+3.0/-16.0	PLATED	86
①	39.37	+3.0/-3.0	PLATED	10
②	39.3701	+3.0/-3.0	PLATED	10
③	43.307	+3.0/-3.0	PLATED	2
④	45.276	+3.0/-3.0	PLATED	38
⑤	62.992	+3.0/-3.0	PLATED	2
⑥	66.929	+3.0/-3.0	PLATED	4
⑦	125.0	+3.0/-3.0	PLATED	4
⑧	257.874	+3.0/-3.0	PLATED	4

LAMINATION DIAGRAM				
NAME	LAYER	THICKNESS (in.)	DIELECTRIC	
1	TOP	1	TD	B-STAGE
2	ORG L2	1	TD	B-STAGE
3	SIGNAL LIND L3	1	TD	CORE
4	POWER L4	1	TD	B-STAGE
5	ORG L5	1	TD	B-STAGE
6	BOTTOM	1	TD	FOIL

THE FINISHED PCB THICKNESS TO BE: .0625 ±.0.005

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.		maxim integrated™	
FRACTIONS	DECIMALS	ANGLES	DRAWN BY: CPB	DATE: 02/20/13	TITLE: FABRICATION DWG. MAX98371 DEV APPS	
±.1/-	.XX ±.1/-	°.1/-	CHECKED BY:	DATE:	SIZE: DRAWING NO.	
MATERIAL:	SEE NOTES		APPR. BY:	DATE:	NOT TO SCALE	
FINISH:	SEE NOTES		APPR. BY:	DATE:	TEMPLATE REV C	
					SHEET 1 OF 1	