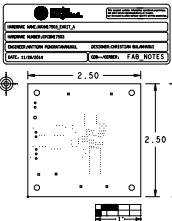


REVISIONS			
REV	DESCRIPTION	APPROVED	DATE
A	RELEASE		

- NOTES: () UNLESS OTHERWISE SPECIFIED
1. DIMENSIONS ARE IN INCHES (EXCEPT WHERE NOTED). MATERIAL: (USE CHECKED ITEMS FOR MATERIAL)
2. BOARD MATERIAL: (X) FR4 (RHS COMPLIANT) OR EQUIVALENT () ISOLA-FR408HR () NELCO-4000-13 OR EQUIVALENT () 370HR (RHS COMPLIANT) OR EQUIVALENT () ROGERS 4350R () ROGERS 4003C () OTHER _____
3. THE PCB SHALL BE FABRICATED TO IPC-6012, TYPE X, CLASS 2. WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2. CURRENT REVISIONS.
4. BOARD MATERIAL & CONSTRUCTION SHALL MEET THE REQUIREMENTS OF UL-94V0 WITH FLAMMABILITY RATING OF 94V-0.
5. OVERALL BOARD THICKNESS REFER TO LAMINATION DIAGRAM. TOLERANCE APPLIES AFTER ALL LAMINATION AND PLATING PROCESSES. IT IS TO BE MEASURED FROM TOP PCB METAL TO BOTTOM PCB METAL UNLESS OTHERWISE SPECIFIED.
6. BOW & TWIST NOT TO EXCEED 0.0075 IN. (0.175) PER LINEAR INCH. BOW & TWIST SHOULD BE MEASURED PER IPC-TM-650, METHOD 2.4.22.
- TOOLING: (USE CHECKED ITEMS FOR TOOLING)
7. PHOTO ETCH (CIRCUITRY PER ENCLOSED GERBER RSTX4 OR QDR++ FORMAT FILE. DRILL LOCATION AND SIZE CONTROLLED BY EXCELLON CNC DRILL FILE.
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% LONG 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 WIDTHS OR SPACING MUST HAVE PRIOR WRITTEN APPROVAL FROM MAXIM.
9. ALL TRACES FILLETED OPTION TO ENHANCE RELIABILITY AT PAD JUNCTIONS WHERE SPACING PERMITS UNLESS OTHERWISE SPECIFIED: () FILLETED (X) NOT FILLETED
10. LAYER TO LAYER REGISTRATIONS SHALL BE WITHIN .003 INCHES. LEGEND TO LEGEND +/- 0.007 INCHES
- FINISH: (USE CHECKED ITEMS FOR PLATING)
11. PLATING SPECIFICATION: () 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 TO 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 (1 OZ). UNLESS OTHERWISE SPECIFIED (X) 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 (<2 OZ) AS LONG AS THE FINISH COPPER WEIGHT IS (2 OZ). UNLESS OTHERWISE SPECIFIED () OTHER _____
12. CHECK ALL THAT APPLY () FINISH CONDUCTOR SURFACES: IMMERSION GOLD, 3-6 MICRO INCHES OVER 100 MICRO INCHES MINIMUM OF ELECTROLESS NICKEL. (X) LEAD FREE AND RNS COMPLIANT OR EQUIVALENT LEAD FREE PLATING () ELECTRODEPOSITED HARD GOLD PLATE, TYPE 1 (99.7% MIN GOLD), GRADE C (KNOW HARDNESS 130-200), CLASS 1 (50-100 MICRO INCHES THICK) IN ACCORDANCE WITH MIL-G-45204C. GENERAL SURFACING REQUIREMENTS MUST MEET ANSI/JPCA-4500-CURRENT REV) SECTION 4.5. CLASS 3 (50-100 MICRONS THICK) OVER ELECTRODEPOSITED NICKEL PLATE IN ACCORDANCE WITH ANSI/JPCA-4500, SECTION 4.0. CLASS 1 (200-600 MICRONS THICK). () FINISH CONDUCTOR SURFACES: IMMERSION GOLD, 2-5 MICRO INCHES OVER 118-236 MICRO INCHES MINIMUM OF ELECTROLESS NICKEL. () FINISERS TO BE GOLD PLATED. () OTHER _____
13. 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 UNEVEN SO AS TO HINDER PROPER SOLDER WICKING.
14. CHECK ALL THAT APPLY (X) GREEN SOLDERMASK OVER BARE COPPER/BARE GOLD (BOTH SIDES) WITH LIQUID PHOTO IMAGEABLE INK (LPI) PER ARTWORK. (X) GREEN TATTO PSR-4000 () OTHER _____
15. CHECK ALL THAT APPLY (X) APPLY SILKSCREEN USING A NON-CONDUCTIVE, WHITE EPOXY BASED INK PER ARTWORK. () OTHER _____
16. VENDOR LOGO & DATE CODE REQUIRED IN INK ON BOTTOM SIDE ONLY. DATE CODE FORMAT MUST BE YYYY ONLY TESTING.
17. FINAL ELECTRICAL TEST TO BE PERFORMED USING PROVIDED IPC-D-386A NETLIST OR QDR++ FORMAT FILE. (REQUIRED UNLESS OTHERWISE SPECIFIED IN QUOTE) THE PCB SHALL HAVE A VERIFICATION STAMP.
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.
- MISCELLANEOUS:
19. FOR ALL DRILL INFORMATION REFER TO DRILL CHART. (X) NON-CONDUCTIVE EPOXY, FILL AND CAP ALL 0.2XXX INCH DRILLED VIAS. () SILVER, FILL AND CAP ALL 0.2XXX INCH DRILLED VIAS.
20. IF PRESENT, ALL MICRO-VIAS LESS THAN 0.006 INCHES FHS WHEN USED AS VIP (VIA IN PAD) OR STACKED TO BE PLATED SHUT WITH COPPER, UNLESS OTHERWISE SPECIFIED.
21. FINISHED SURFACE CONTACTS AND FILLED VIAS TO BE FREE OF ANY PITS, SCRATCHES PROBE MARKS OR OTHER DEFECTS THAT COULD EFFECT THE APPEARANCE AND PERFORMANCE OF THE CONTACT SURFACE. CONTACTS ARE TO BE AS PLAT AS POSSIBLE, NOT TO EXCEED +/- 0.001" OF PLATING.
22. THEFTING: () SUPPLIER MAY ADD THEFTING TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN. (X) SUPPLIER MAY NOT ADD THEFTING TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN.
23. PERMIT () PERMITS TO BE INSTALLED BY SUPPLIER () PERMITS NOT TO BE INSTALLED BY SUPPLIER (X) NOT APPLICABLE



LAMINATION DIAGRAM			
NAME	DATE	DESIGNER	DATE
1 TOP	2	TBD	FR4(RHS)/ESIV
2 INTERNAL	1	TBD	FR4(RHS)/ESIV
3 INTERNAL	1	TBD	FR4(RHS)/ESIV
4 BOTTOM	2	TBD	FR4(RHS)/ESIV

THE FINISHED PCB THICKNESS TO BE: 0.0625 +/- 0.001"

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
+	7.99	+3.0/-5.99	PLATED	126
□	39.37	+3.0/-3.0	PLATED	12
○	43.31	+3.0/-3.0	PLATED	7
○	66.93	+3.0/-3.0	PLATED	1
○	125.0	+3.0/-3.0	PLATED	4

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	DATE	DATE	TITLE: FABRICATION DWG. MAXIM17503 EVKIT	
+/ -	XX +/- .01	+/ -	DATE	DATE	SIZE: HARDWARE NO. EPCBM17503	
	.XX +/- .005		DATE	DATE	REV A	
MATERIAL:	SEE NOTES		DATE	DATE	NOT TO SCALE	
FINISH:	SEE NOTES		DATE	DATE	TEMPLATE REV 1.5	
					SHEET 1 OF 1	