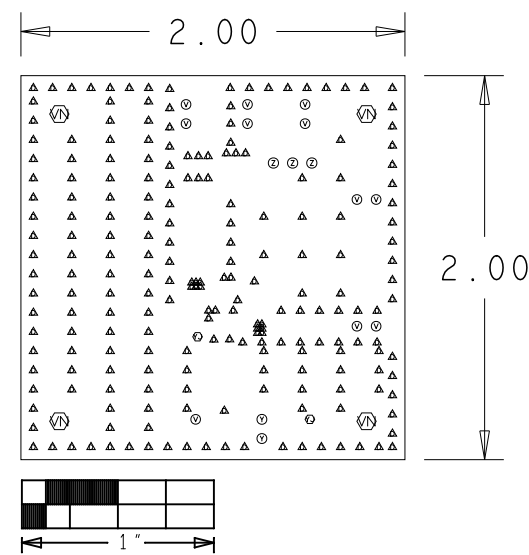
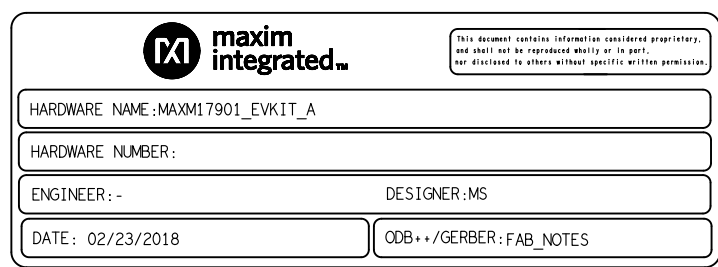
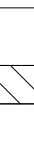



REVISIONS			
REV	DESCRIPTION	APPROVED	DATE

NOTES: UNLESS OTHERWISE SPECIFIED (EXCEPT WHERE NOTED).  
 1. DIMENSIONS ARE IN INCHES (EXCEPT WHERE NOTED).  
 MATERIAL: (USE CHECKED ITEMS FOR MATERIAL)  
 2. BOARD MATERIAL:  
   ( X ) ISOLA 370HR OR EQUIVALENT  
   ( ) ISOLA-FR408HR OR EQUIVALENT  
   ( ) NELCO-4000-13  
   ( ) MEGTRON 6  
   ( ) ROGERS 4303C  
   ( ) 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 UL796  
   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. BOM & TWIST NOT TO EXCEED 0.005 IN. (0.75%) PER LINEAR INCH.  
   BOM & TWIST SHOULD BE MEASURED PER IPC-TM-650, METHOD 2.4.22.  
 TOOLING: (USE CHECKED ITEMS FOR TOOLING)  
 1. PHOTO ETCH CIRCUITRY PER ENCLOSED FOLDER H5274X OR 00B+ 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% OHMS AS STATED IN THE LAMINATION DIAGRAM. THE  
   OVERALL 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.  
 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. FINISHED COPPER WEIGHT/THICKNESS:  
   ( X ) REFER TO LAMINATION DIAGRAM FOR FINISHED COPPER WEIGHT/THICKNESS REQUIREMENTS.  
   THE STARTING COPPER WEIGHT/THICKNESS CAN VARY AS LONG AS THE FINISHED COPPER  
   WEIGHT/THICKNESS IS NOT LESS THAN THE SPECIFIED VALUE, UNLESS OTHERWISE SPECIFIED.  
   ( ) OTHER \_\_\_\_\_  
 12. CHECK ALL THAT APPLY  
   ( ) ELECTRODEPOSITED HARD GOLD PLATE, TYPE 1 (99.7% MIN GOLD), GRADE C  
     [KNOWS HARDNESS 130-200], CLASS 1 (50-100 MICRO INCHES THICK) IN ACCORDANCE WITH MIL-G-45  
   GENERAL SURFACING REQUIREMENTS MUST MEET ANSI/IPC-A-600(CURRENT REV) SECTION 4.0,  
   CLASS 3 (50-100 MICROINCHES THICK) OVER ELECTRODEPOSITED NICKEL PLATE  
   IN ACCORDANCE WITH ANSI/IPC-A-600, SECTION 4.0, CLASS 3 (200-600 MICROINCHES THICK).  
   ( X ) FINISH CONDUCTOR SURFACES: IMMERSION GOLD, 3-8 MICRO INCHES OVER  
     100 MICRO INCHES MINIMUM OF ELECTROLESS NICKEL.  
   ( ) FINISH CONDUCTOR SURFACES: IMMERSION GOLD, 2-5 MICRO INCHES OVER  
     118-236 MICRO INCHES MINIMUM OF ELECTROLESS NICKEL.  
   ( ) FINGERS TO BE GOLD PLATED.  
   ( ) LEAD FREE AND RoHS COMPLIANT PLATING.  
   ( ) OTHER \_\_\_\_\_  
 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 HINDER PROPER SOLDER WICKING.  
 14. CHECK ALL THAT APPLY  
   ( X ) GREEN SOLDERMASK OVER BARE COPPER/BARE GOLD (BOTH SIDES) WITH LIQUID PHOTO IMAGEABLE INK  
     PER ARTWORK.  
   ( ) GREEN TAIYO 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 MM DD.  
 TESTING:  
 17. FINAL ELECTRICAL TEST TO BE PERFORMED USING PROVIDED IPC-D-356A (NETLIST OR 00B+ 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 THE TIME OF SHIPMENT. INSTANCES WHERE TOR TESTING  
   CAN'T BE PERFORMED BECAUSE THE TRACE LENGTH IS TOO SHORT ON THE OUTER LAYERS AT THE PIN ESCAPES  
   IS ACCEPTABLE. ALL OTHER INSTANCES MUST BE REPORTED.  
 MISCELLANEOUS:  
 19. IF PRESENT, ALL BLIND/BURIED VIAS WITH AN ASPECT RATIO >1:1 TO BE PLATED SHALL WITH COPPER WHEN  
   USED AS VIA-IN PAD OR AS A STACKED VIA. BLIND/BURIED VIAS WITH AN ASPECT RATIO >1:1 TO BE FILLED  
   WITH PLATING, UNLESS OTHERWISE SPECIFIED.  
 20. FOR ALL DRILL INFORMATION REFER TO DRILL CHART.  
   ( ) NON-CONDUCTIVE EPoxy. FILL AND CAP ALL 0. XXXX INCH DRILLED VIAS.  
   ( ) SILVER. FILL AND CAP ALL 0. XXXX INCH DRILLED VIAS.  
 21. FINISHED SURFACE CONTACTS AND FILLED VIAS TO BE FREE OF ANY PITS, SCRATCHES PROBE MARKS  
   OR OTHER DEFORMITIES THAT COULD EFFECT THE APPEARANCE AND PERFORMANCE OF THE CONTACT  
   SURFACE. CONTACTS ARE TO BE AS FLAT AS POSSIBLE, NOT TO EXCEED +/- 0.001" OF FLATNESS.  
 22. THEIVING:  
   ( ) SUPPLIER MAY ADD THEIVING TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN.  
   ( ) SUPPLIER MAY NOT ADD THEIVING TO COMPENSATE FOR LOW COPPER DENSITY AREAS ON THIS DESIGN.  
 23. PENMUT  
   ( ) PENMUTS TO BE INSTALLED BY SUPPLIER.  
   ( ) PENMUTS NOT TO BE INSTALLED BY SUPPLIER.  
   ( X ) NOT APPLICABLE.



LAMINATION DIAGRAM					
LAYER NUMBER	LAYER NAME	COPPER THICKNESS (OZ INCH)	DIELECTRIC THICKNESS (IN.)	DIELECTRIC MATERIAL	
1	TOP	2 OZ. 0.0028" MIN		FOIL	
2	L2_GND	1 OZ. 0.0014"		TB0	ISOLA 370HR/EQUIVALENT
3	L3_PWR	1 OZ. 0.0014"		TB0	ISOLA 370HR/EQUIVALENT
4	BOTTOM	2 OZ. 0.0028" MIN		TB0	ISOLA 370HR/EQUIVALENT
FOIL					
THE FINISHED PCB THICKNESS TO BE: 0.0625" +/- 0.010"					

DRILL CHART: TOP TO BOTTOM					NOTES
FIGURE	SIZE	TOLERANCE	ALL UNITS ARE IN MILS		
	12.0	+3.0/-10.0	PLATED	213	
	32.0	+3.0/-3.0	PLATED	2	
	39.37	+3.0/-3.0	PLATED	11	
	43.31	+3.0/-3.0	PLATED	2	
	45.28	+3.0/-3.0	PLATED	3	
	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.		 <b>maxim</b> <b>integrated™</b>	
FRACTIONS      DECIMALS      ANGLES $\frac{\text{ } / \text{ } }{\text{ } // \text{ } }$ .XX $\frac{\text{ } / \text{ } }{\text{ } .01}$ ° $\frac{\text{ } / \text{ } }{\text{ } // \text{ } }$ .XXX $\frac{\text{ } / \text{ } }{\text{ } .005}$				HARDWARE NAME:	
MATERIAL:				MAXM17901_EVKIT_A	
SEE NOTES		DRAWN BY:MS      DATE:02/23/2018		HARDWARE NUMBER:	
FINISH:		CHECKED BY:MS      DATE:03/05/2018		XX - XXXXX - XXX	
SEE NOTES		APPR. BY:      DATE:		NOT TO SCALE    TEMPLATE REV:A	
		APPR. BY:      DATE:		SHEET 1 OF 1	