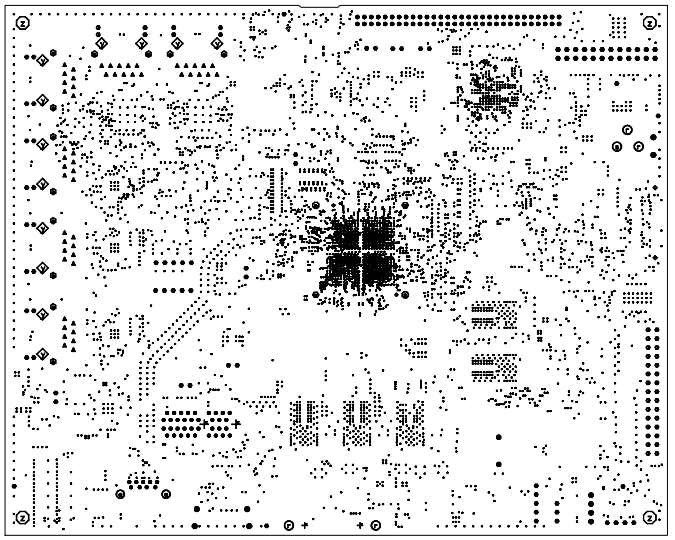
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	03-13-2018	



DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	8.0	+0.0/-8.0	PLATED	1201
·	10.0	+0.0/-10.0	PLATED	1510
•	28.0	+3.0/-3.0	PLATED	9
•	28.35	+3.0/-3.0	PLATED	36
·	30.0	+3.0/-3.0	PLATED	2
•	33.0	+3.0/-3.0	PLATED	60
▲	35.04	+3.0/-3.0	PLATED	52
•	40.0	+3.0/-3.0	PLATED	44
•	40.16	+3.0/-3.0	PLATED	54
•	43.0	+3.0/-3.0	PLATED	2
•	45.0	+3.0/-3.0	PLATED	4
•	45.28	+3.0/-3.0	PLATED	24
•	50.0	+3.0/-3.0	PLATED	6
•	67.0	+3.0/-3.0	PLATED	12
◎	68.9	+3.0/-3.0	PLATED	2
◎	90.0	+3.0/-3.0	PLATED	2
◎	120.0	+3.0/-3.0	PLATED	4
◎	140.0	+3.0/-3.0	PLATED	1
◆	33.46	+2.0/-2.0	NON-PLATED	2
◆	45.0	+2.0/-2.0	NON-PLATED	2
✚	59.0	+2.0/-2.0	NON-PLATED	2
⊕	68.9	+2.0/-2.0	NON-PLATED	2
✚	92.52	+2.0/-2.0	NON-PLATED	2
◈	125.98	+2.0/-2.0	NON-PLATED	12
ⓩ	138.0	+2.0/-2.0	NON-PLATED	4

DRILL CHART: TOP to L2_GND1				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	5.0	+0.0/-5.0	PLATED	620
·	8.0	+0.0/-8.0	PLATED	613

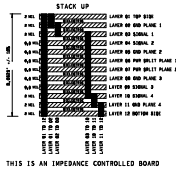
DRILL CHART: L2_GND1 to L3_SIG1				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	5.0	+0.0/-5.0	PLATED	620
·	8.0	+0.0/-8.0	PLATED	613

DRILL CHART: L3_SIG1 to L10_SIG4				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	8.0	+0.0/-8.0	PLATED	917

DRILL CHART: L10_SIG4 to L11_GND4				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	5.0	+0.0/-5.0	PLATED	378
·	8.0	+0.0/-8.0	PLATED	422

DRILL CHART: L11_GND4 to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	5.0	+0.0/-5.0	PLATED	377
·	8.0	+0.0/-8.0	PLATED	422

CUSTOMER NAME:	TEXAS INSTRUMENTS		
BOARD NAME: AM574X_INDUSTRIAL_EVM	DESCRIPTION:	FABRICATION DRAWING	
BOARD NO: PROC053	REV: A	DATE: 03/13/2018	SH 1 OF 1



THIS IS AN IMPEDANCE CONTROLLED BOARD

FAB NOTES:

1. ALL DIMENSIONS ARE IN INCHES, UNLESS OTHERWISE NOTED.
2. THE PWB SHALL BE FABRICATED TO IPC-6012, CLASS 2 AND WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2. CURRENT REVISIONS.
3. BOARD MATERIAL SHALL BE 180 Tg/350 Td ISOLA FR-370 HR OR EQUIVALENT. RoHS COMPLIANT AND LEAD FREE ASSEMBLY CAPABLE. BOARD MATERIAL SHALL MEET OR EXCEED IPC-4101B. COLOR: NATURAL.
4. BOARD MATERIAL & CONSTRUCTION TO BE UL94V0 CERTIFIED AND MARKED ON TOP SIDE OF FINISHED BOARD.
5. MINIMUM COPPER WALL THICKNESS OF PLATED-THRU HOLES TO BE .001 INCH, WITH A MINIMUM ANNULAR RING OF .002 INCH.
6. OVERALL BOARD THICKNESS TO BE 0.0625" +/- 10% AND APPLIES AFTER ALL LAMINATION AND PLATING PROCESSES, MEASURED FROM COPPER TO COPPER.
7. MAX. WARP & TWIST TO BE .0075 INCHES PER INCH.
8. BOARD MUST BE ELECTRICALLY TESTED USING SUPPLIED IPC-D-356 NETLIST.
9. ALL VIAS TO HAVE SOLDERMASK.
10. DESIGN HAS INTENTIONAL SHORTS AT U95 COMPONENT AS SHOWN IN IPC356 NETLIST.
11. ALL DRILLS TO HAVE POSITIONAL TOLERANCE OF +/- 3 MIL.

PROCESS NOTES:

1. A) PLATE CIRCUITARY ON OUTER LAYERS TO 2-5uIN OF GOLD OVER 200uIN OF NICKEL. KNOOP HARDNESS 130-200.
2. APPLY LPI SOLDERMASK OVER BARE COPPER (SMOBC), COLOR: BLACK SOLDERMASK SHALL CONFORM TO IPC-SM-840, CLASS H. CURRENT REV.
3. SOLDERMASK ARTWORK HAS ZERO (0) OVERSIZED PADS. FABRICATION VENDOR IS ALLOWED TO ADJUST THE COMPONENT SOLDERMASK PADS TO MEET THEIR TOOLING REQUIREMENTS.
4. APPLY LPI SILKSCREEN OR EQUIVALENT PER THE ARTWORK. COLOR: WHITE.
5. A) ALL CORE AND PREPREG THICKNESSES ARE UP TO FAB SHOP TO SELECT. B) EXTERNAL LAYER CU THICKNESSES ARE FINISHED THICKNESS AFTER PLATING.

LAYERS	SINGLE-ENDED				EDGE-COUPLED DIFFERENTIAL					
	TRACE WIDTH in mils	TARGET Ohms +/-10%	TRACE WIDTH in mils	TARGET Ohms +/-10%	TRACE WIDTH in mils	TRACE SPACE in mils	TARGET Ohms +/-10%	TRACE WIDTH in mils	TRACE SPACE in mils	TARGET Ohms +/-10%
L1_TOP	6.8	50	4.2	60	5.9	6.1	90	4.25	5.75	100
L3_SIG1	4.3	50	-	-	4.3	7.7	90	3.25	8.75	100
L4_SIG2	4.5	50	-	-	-	-	-	3.9	8.1	100
L9_SIG3	4.5	50	-	-	-	-	-	3.9	8.1	100
L10_SIG4	4.3	50	-	-	4.3	7.7	90	3.25	8.75	100
L12_BOTTOM	6.8	50	4.2	60	5.9	6.1	90	4.25	5.75	100

NOTE :
IMPEDANCE REQUIREMENT :- THIS DESIGN MAY NOT CONTAIN ALL THE FEATURES LISTED IN THE ABOVE TABLE

UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE
DIMENSIONS ARE IN INCH	LAYOUT BY LnT	
TOLERANCES ON;	REVIEWED BY	
2 PL DECIMALS ±	APPROVED BY TI	
3 PL DECIMALS ±		
ANGLES ±		
FRACTIONS ±		

TEXAS INSTRUMENTS

AM574X_INDUSTRIAL_EVM_3M0001_PCB_REVA

SIZE

SCALE 1:1