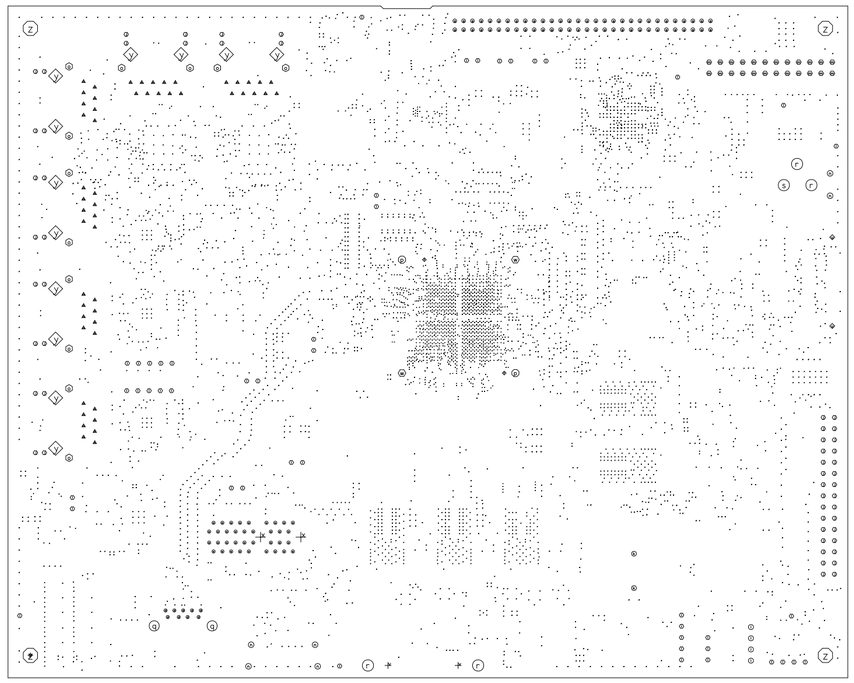
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
C	PRODUCTION RELEASE	11-06-2019	



DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	8.0	+0.0/-8.0	PLATED	1102
·	10.0	+0.0/-10.0	PLATED	1677
•	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	47
◎	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	642

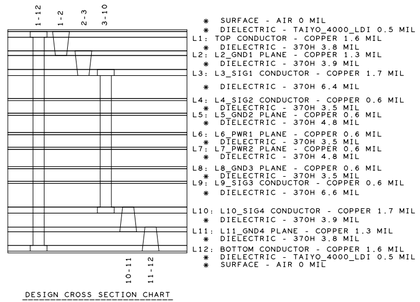
DRILL CHART: L2_GND1 to L3_SIG1				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	5.0	+0.0/-5.0	PLATED	620
·	8.0	+0.0/-8.0	PLATED	642

DRILL CHART: L3_SIG1 to L10_SIG4				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	8.0	+0.0/-8.0	PLATED	918

DRILL CHART: L10_SIG4 to L11_GND4				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
·	5.0	+0.0/-5.0	PLATED	390
·	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	389
·	8.0	+0.0/-8.0	PLATED	423

CUSTOMER NAME:	TEXAS INSTRUMENTS		
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION:	FABRICATION DRAWING	
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 1 OF 1



DESIGN CROSS SECTION CHART
TOTAL THICKNESS 62.3 MIL

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 0.0623" +/- 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. FOLLOW AS PER THE ARTWORK.
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.
   B) SELECTIVE PLATING TO MIN 50uIN OF GOLD OVER 200uIN OF NICKEL. KNOOP HARDNESS 130-200 PER ARTWORK SLPT (SELECTIVE PLATE TOP)
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

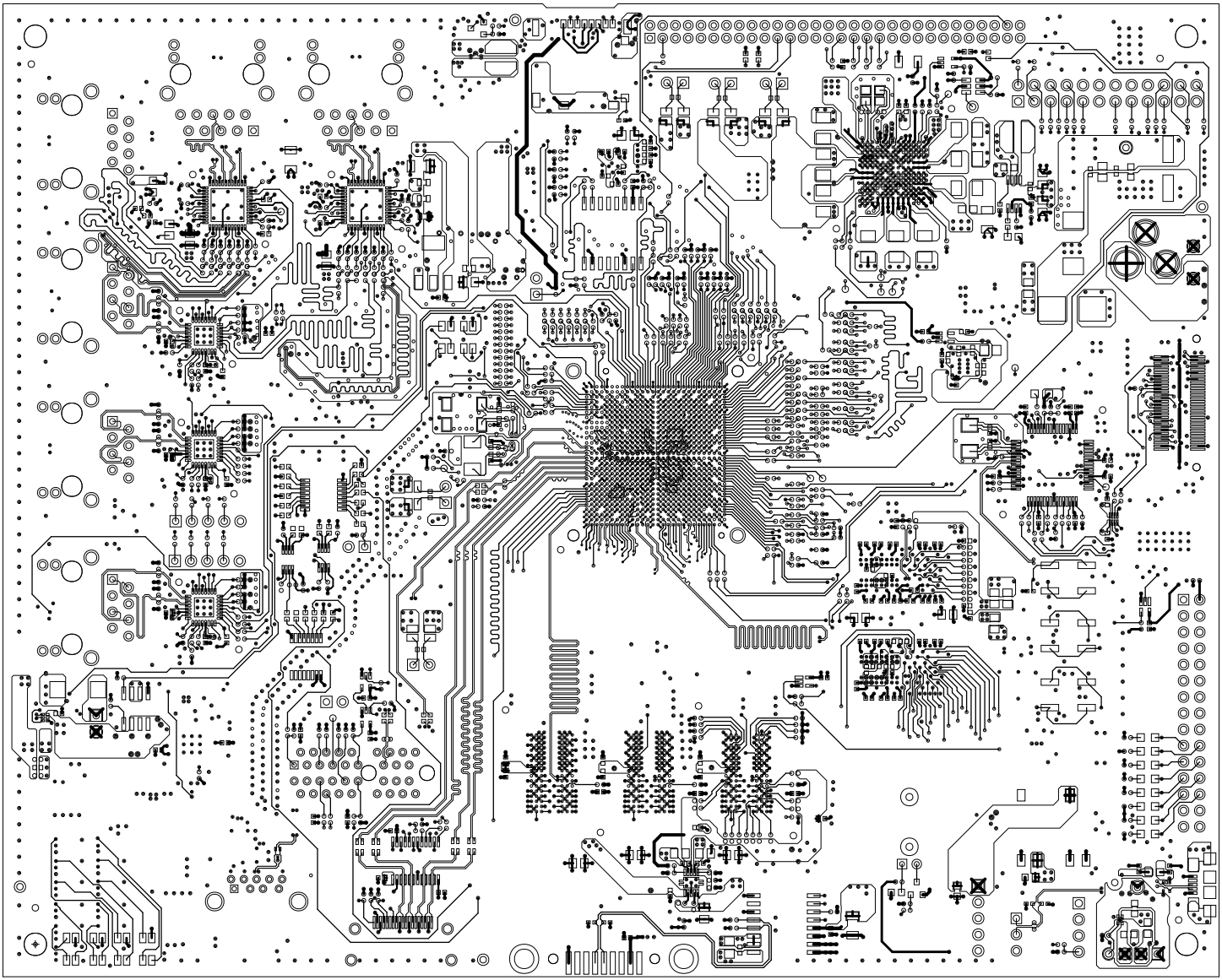
UNLESS OTHERWISE SPECIFIED	SIGNATURES	DATE
DIMENSIONS ARE IN INCH	LAYOUT BY LnT	
TOLERANCES ON:	REVIEWED BY	
2 PL DECIMALS ±	APPROVED BY TI	
3 PL DECIMALS ±		
ANGLES ±		
FRACTIONS ±		

TEXAS INSTRUMENTS

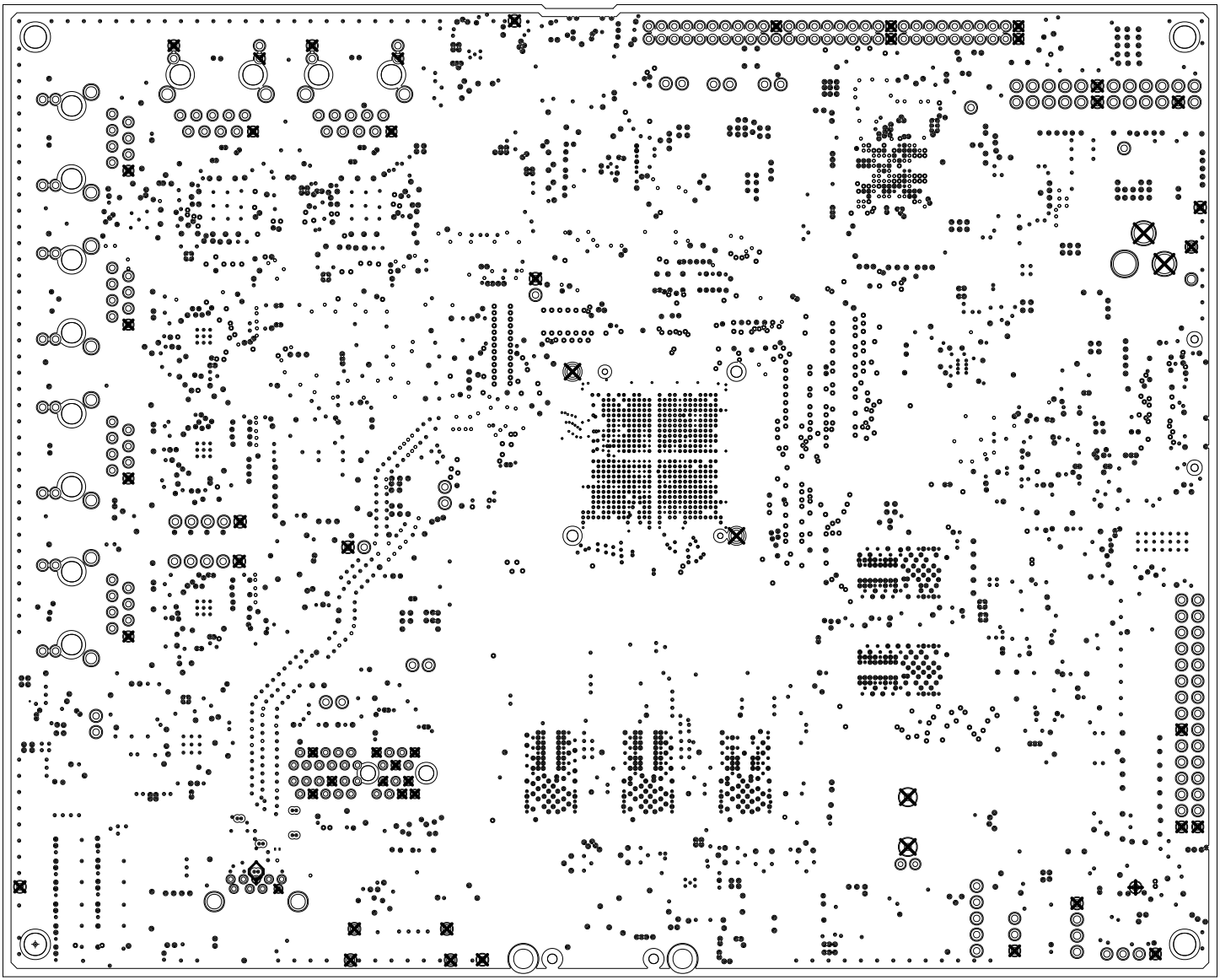
AM572X_INDUSTRIAL_EVM_3M0001_PCB_REVC

SIZE

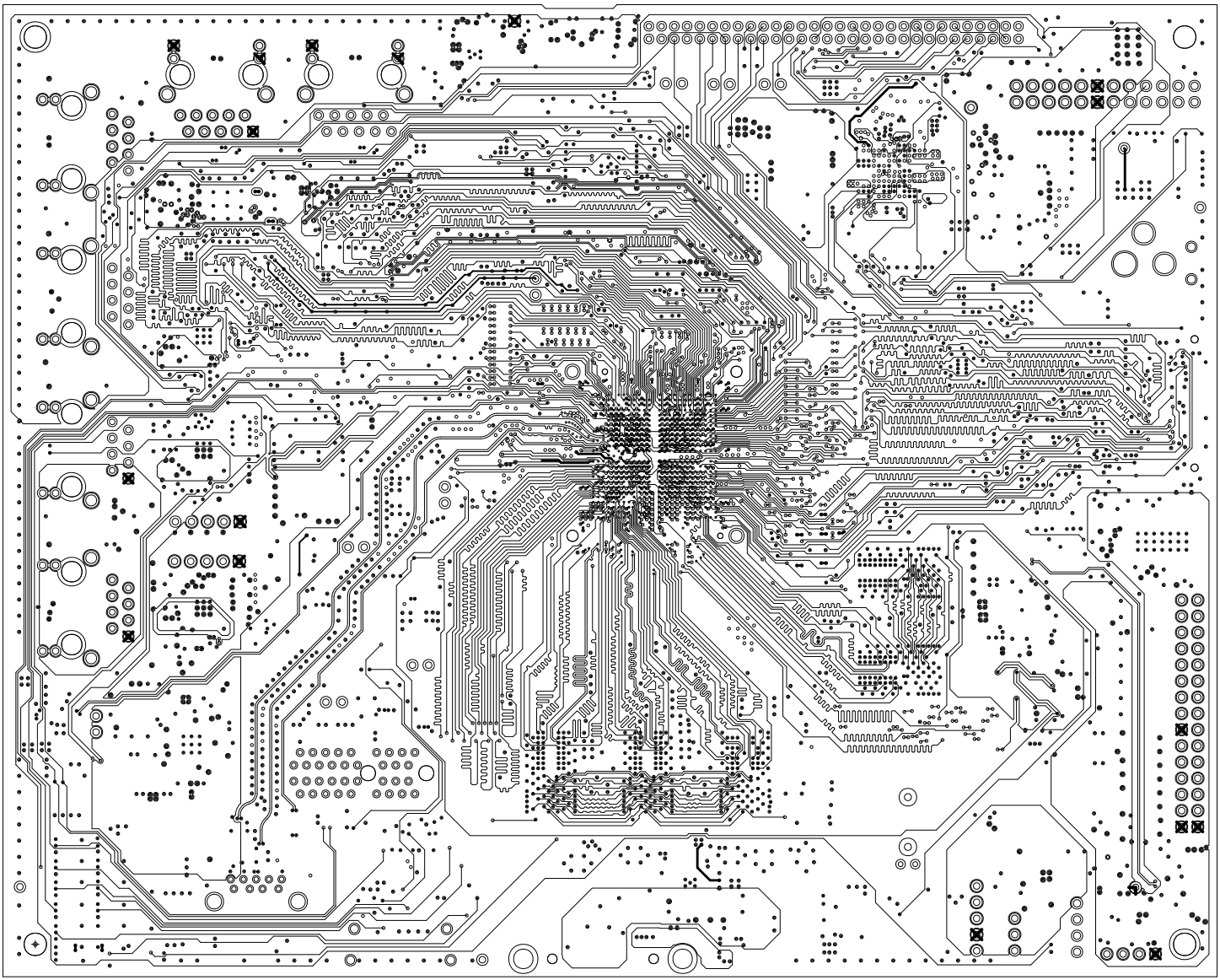
SCALE 1:1



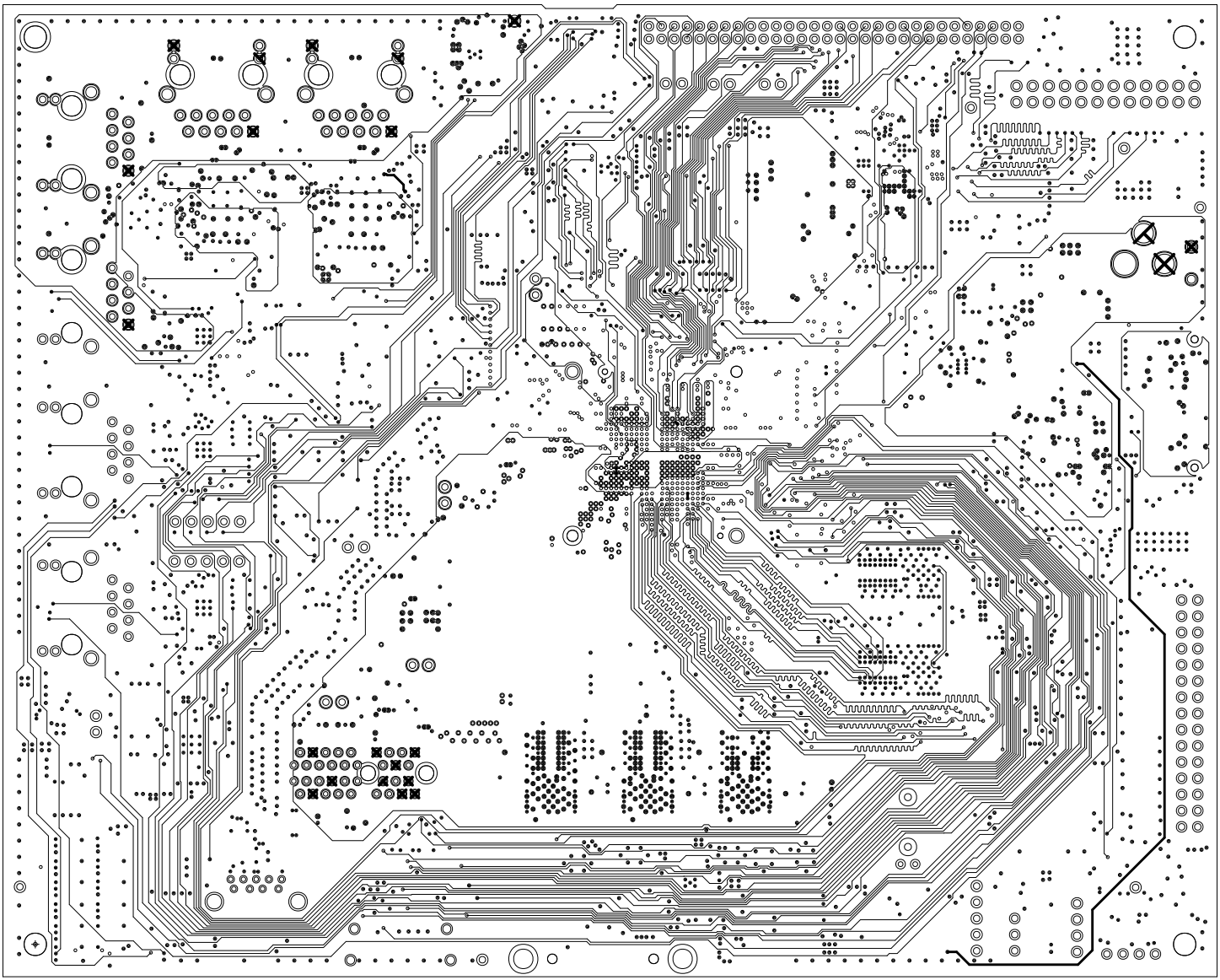
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 01 TOP SIDE		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 1 OF 12



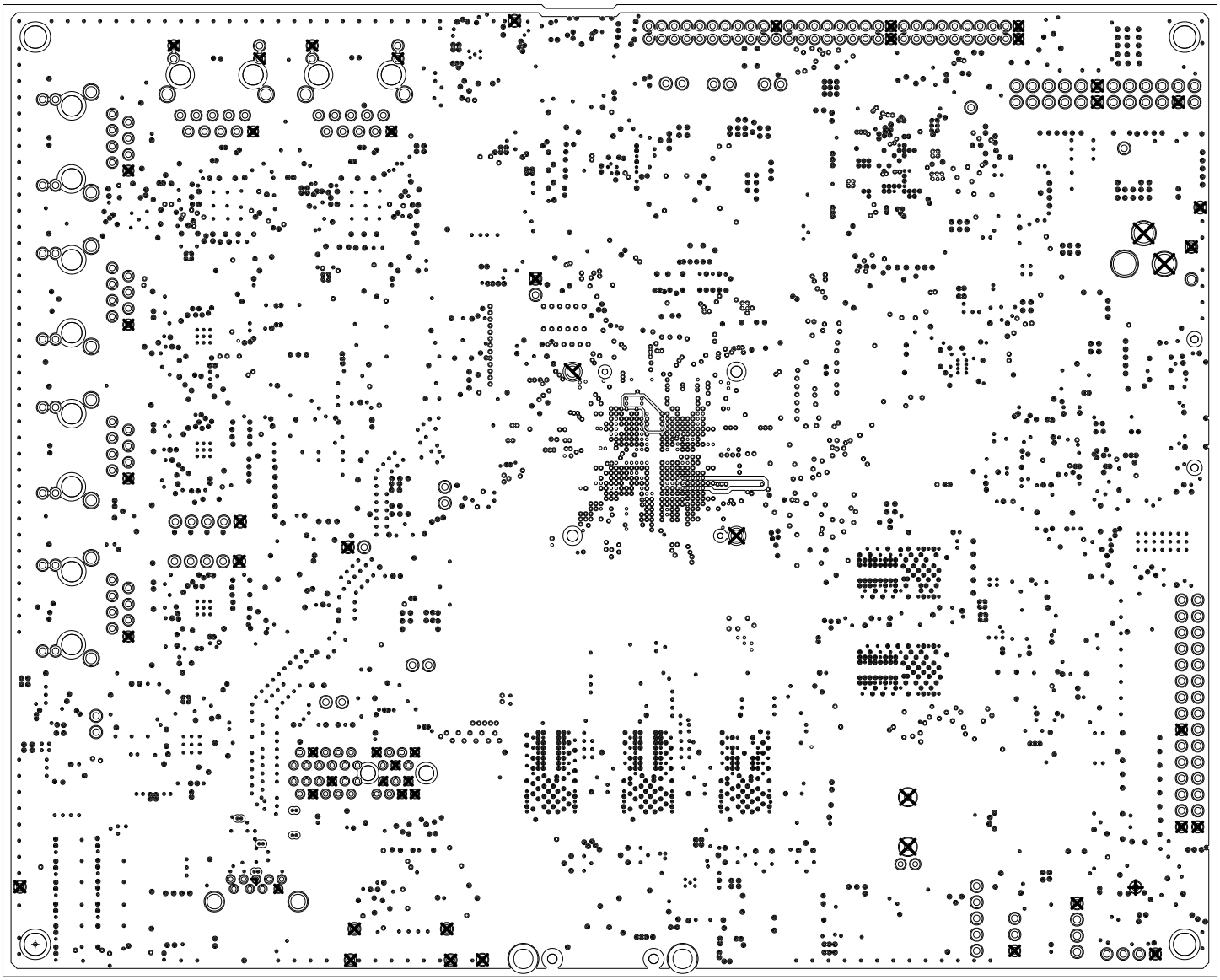
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 02 GND PLANE 1		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 2 OF 12



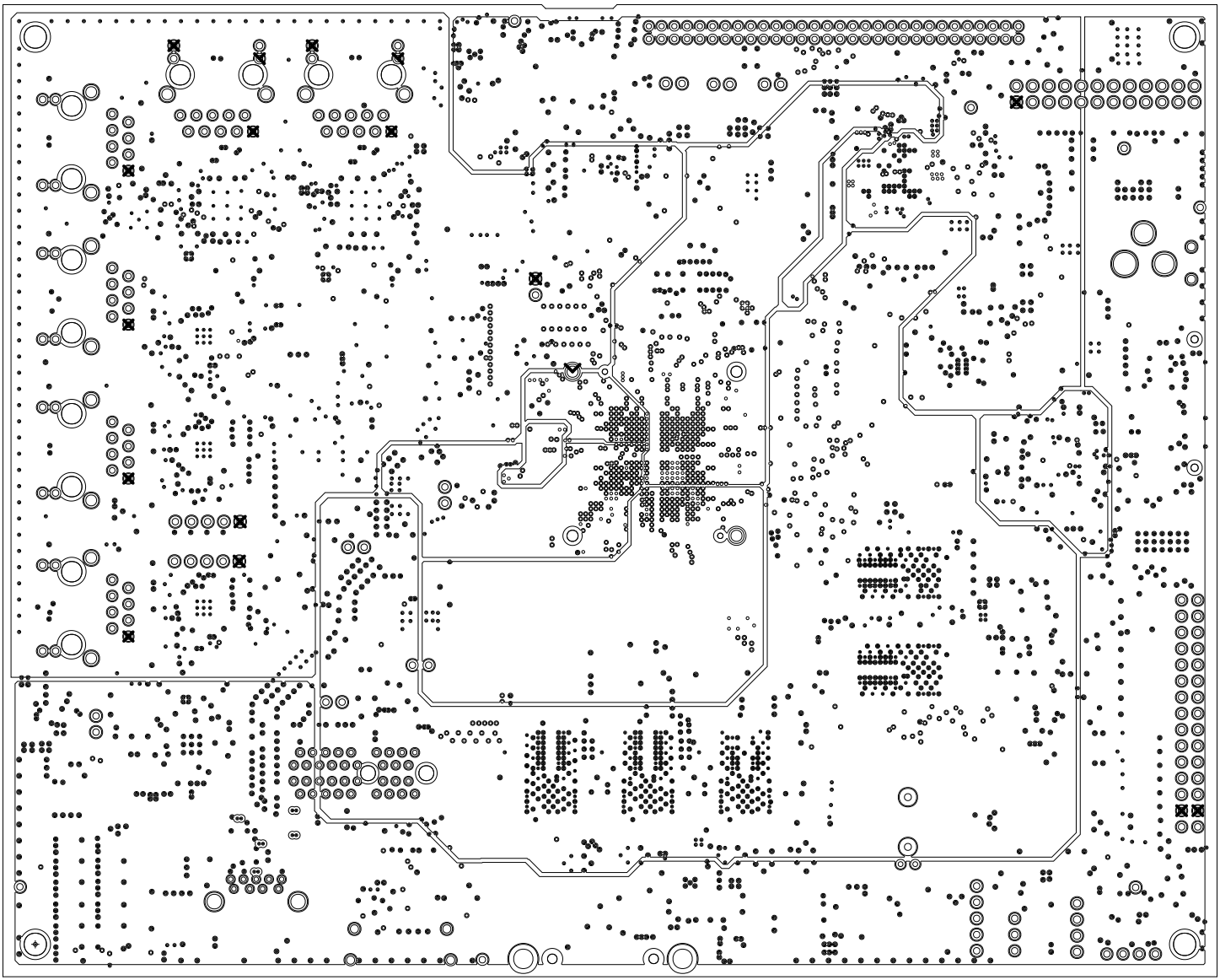
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 03 SIGNAL 1		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 3 OF 12



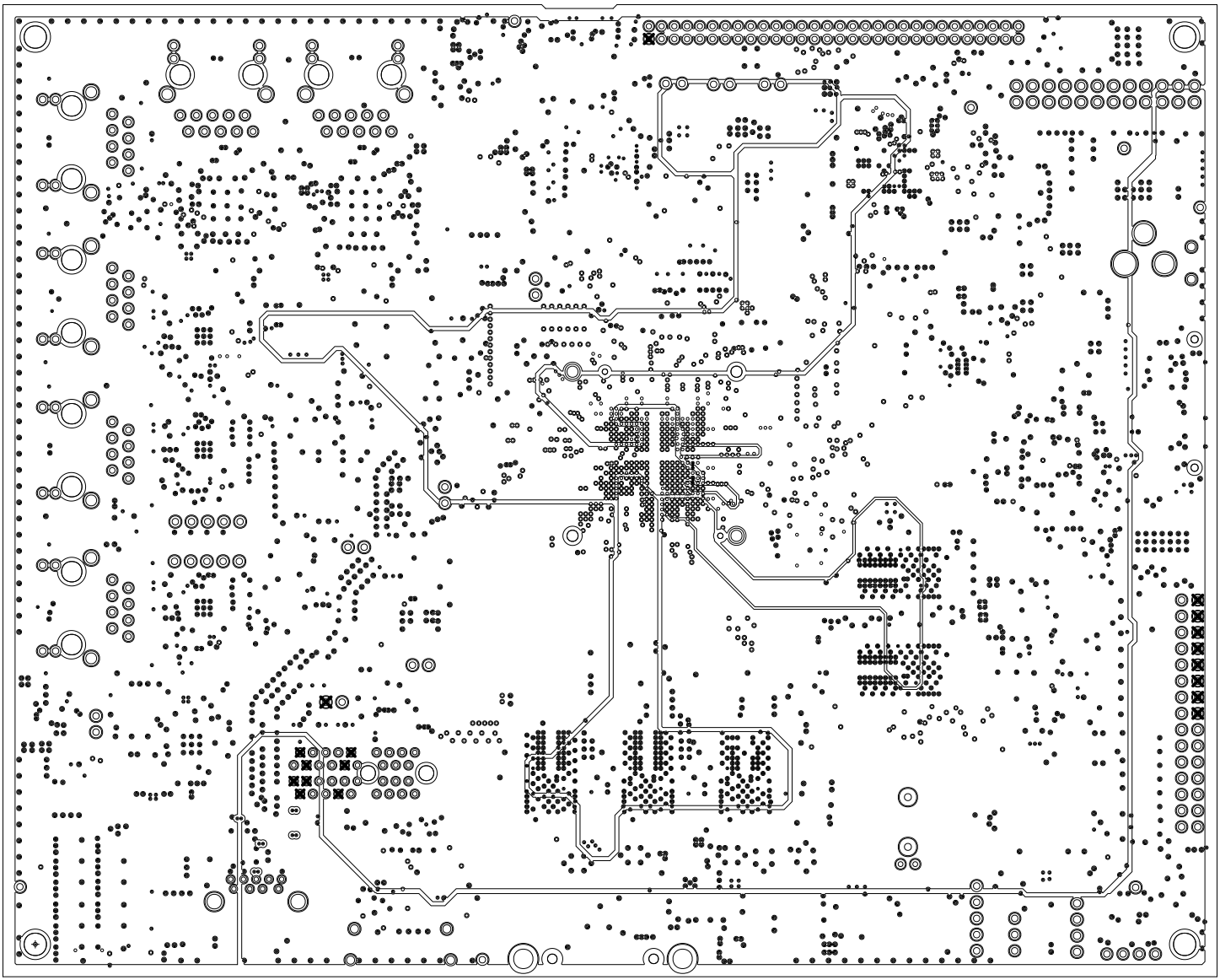
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 04 SIGNAL 2		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 4 OF 12



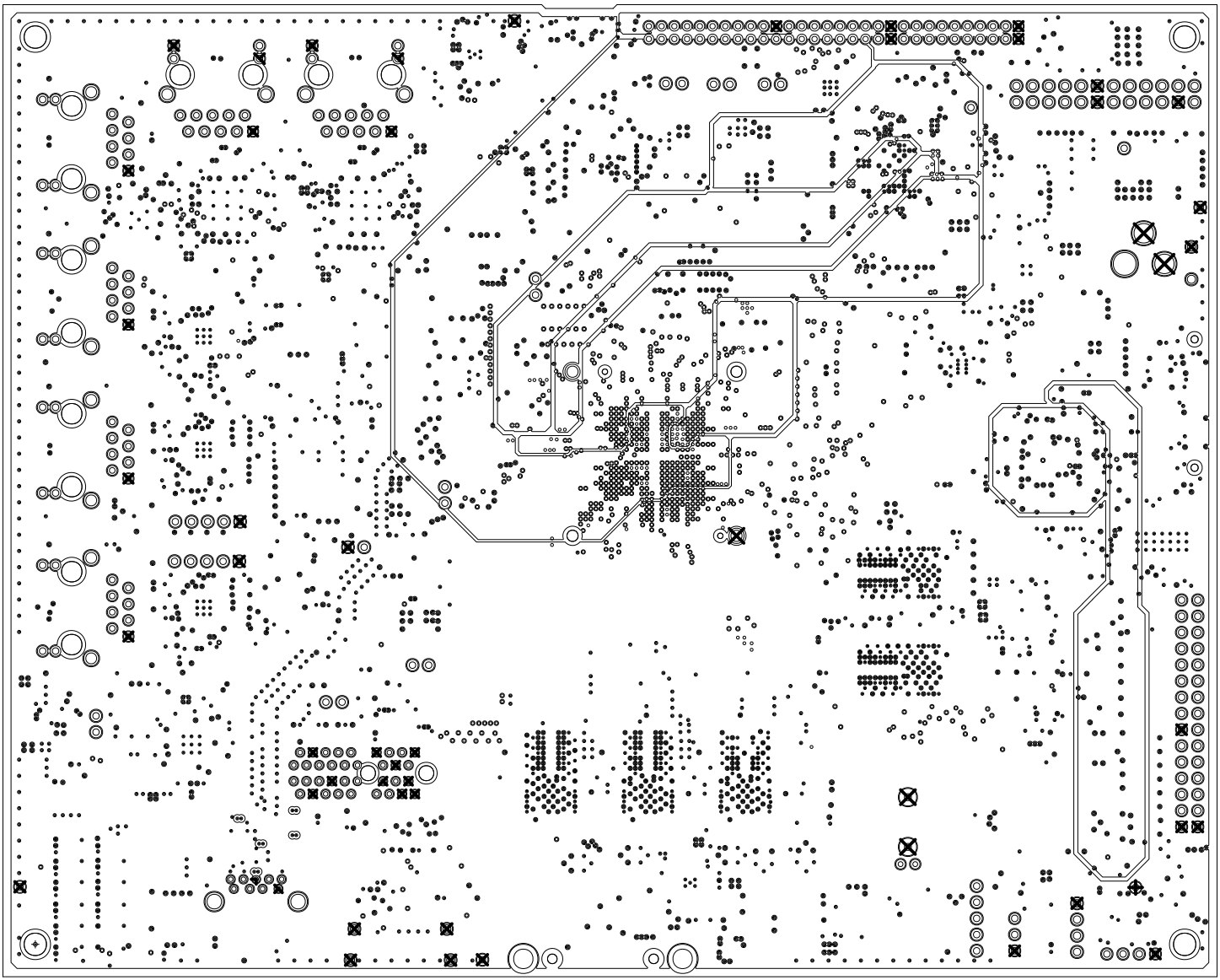
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 05 GND PLANE 2		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 5 OF 12



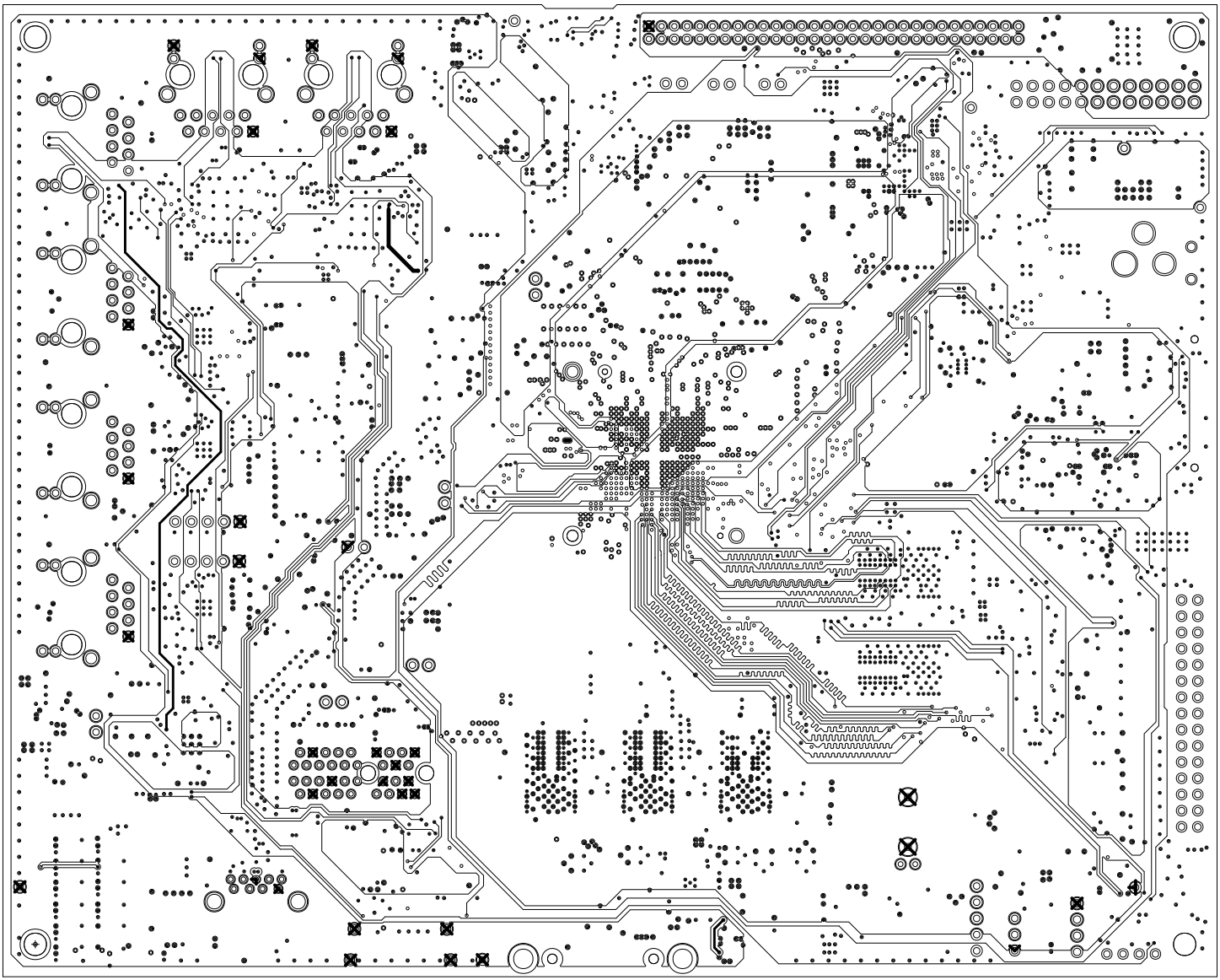
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 06 PWR SPLIT PLANE 1		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 6 OF 12



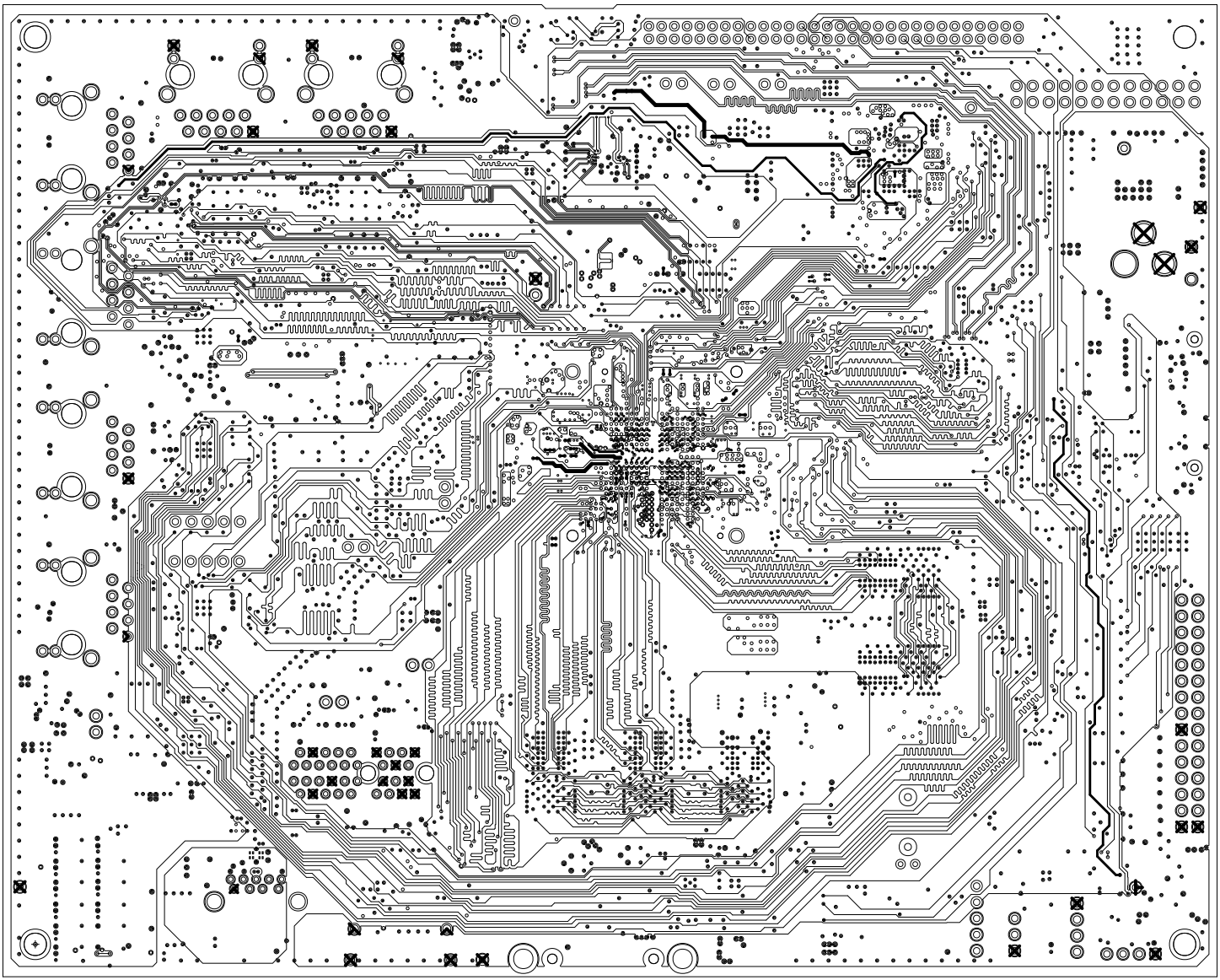
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 07 PWR SPLIT PLANE 2		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 7 OF 12



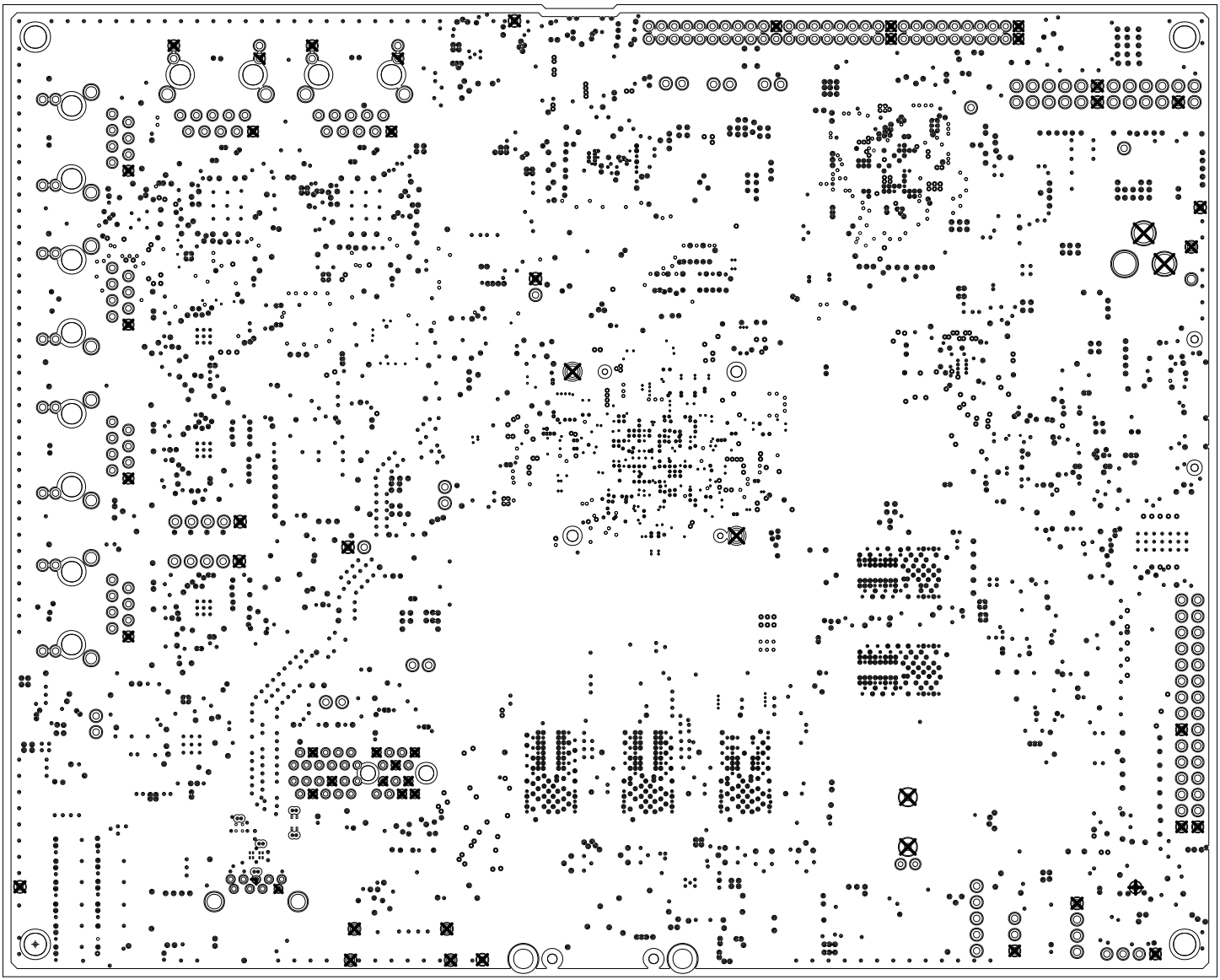
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 08 GND PLANE 3		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 8 OF 12



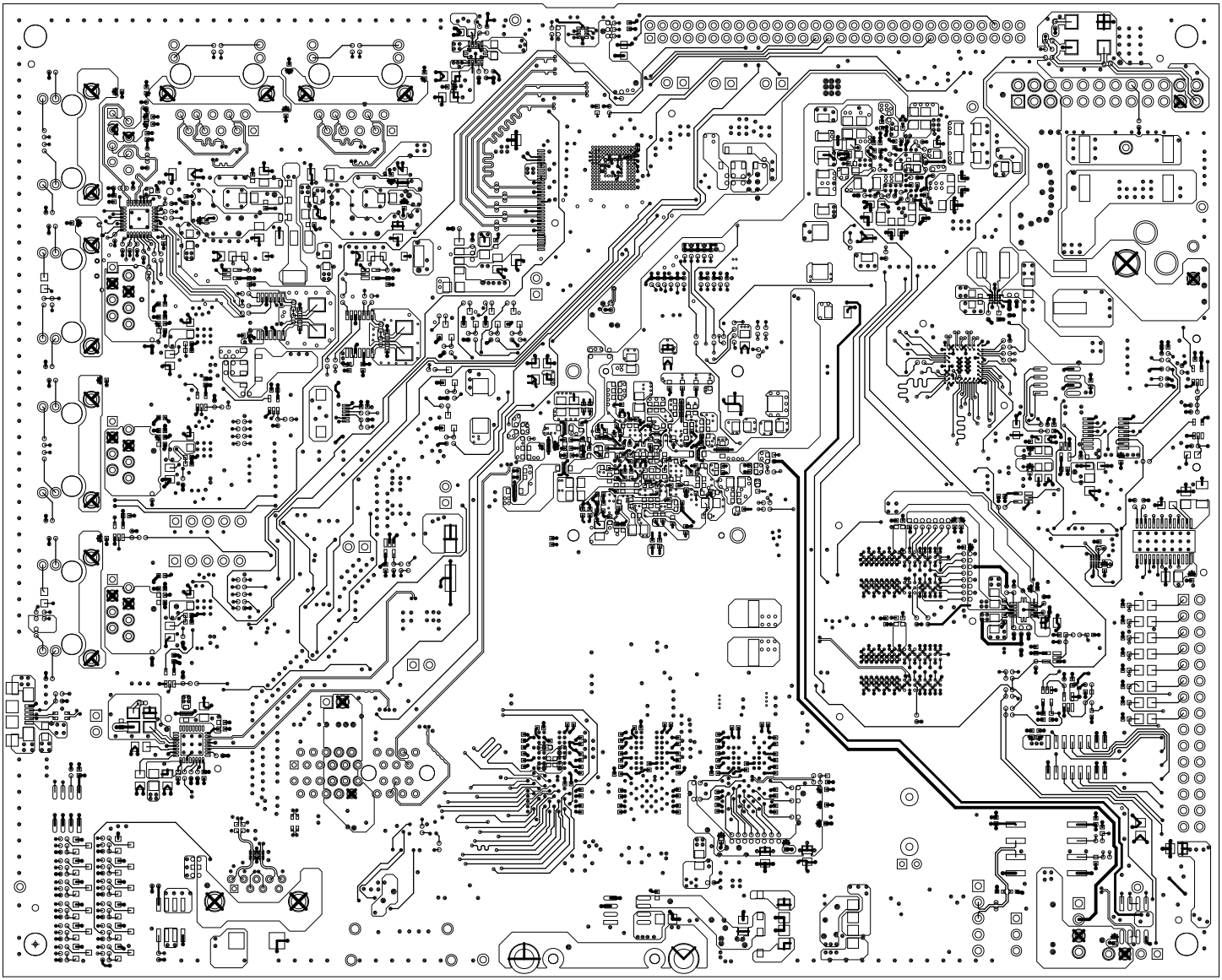
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 09 SIGNAL 3		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 9 OF 12



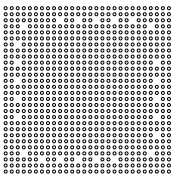
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 10 SIGNAL 4		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 10 OF 12



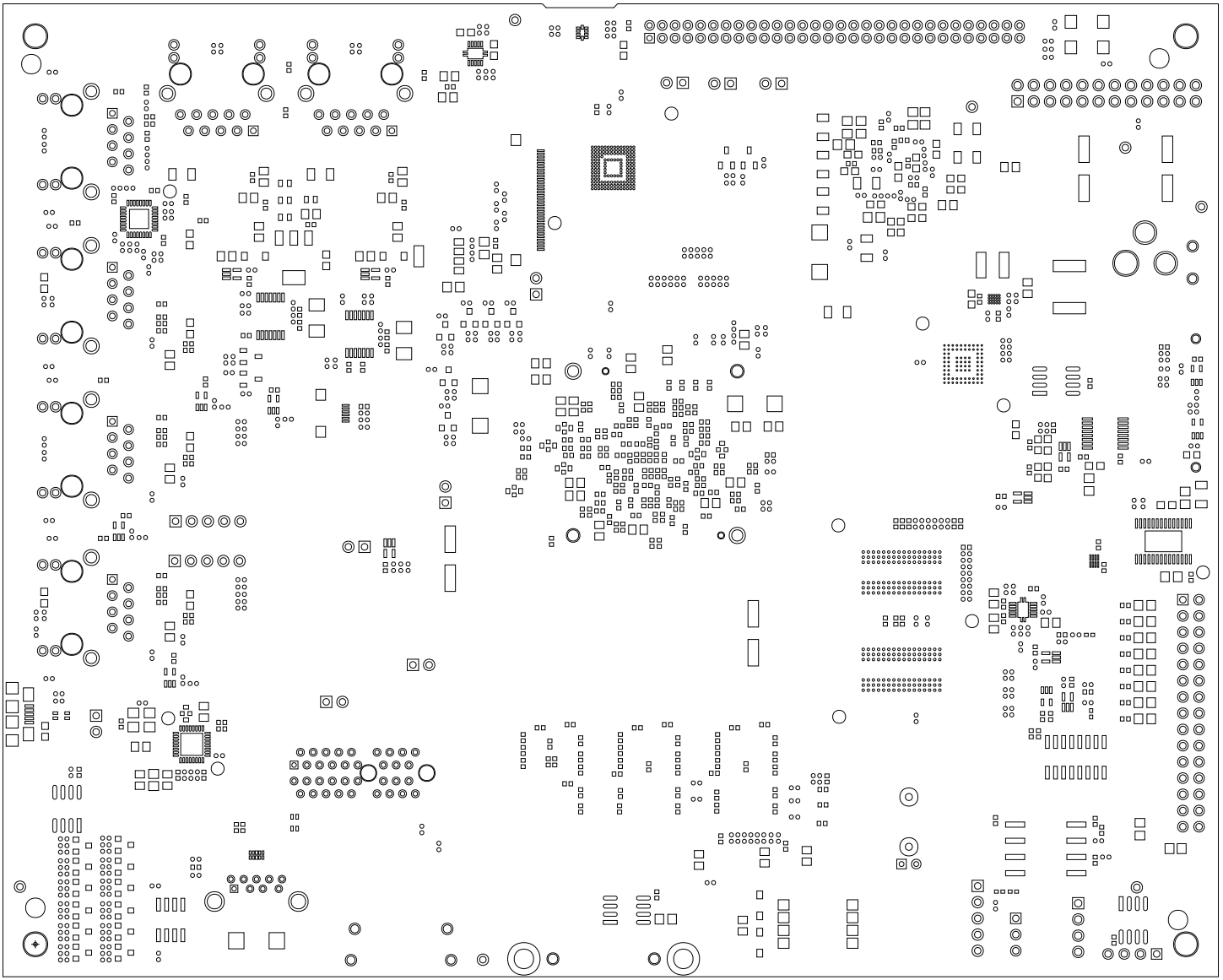
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 11 GND PLANE 4		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 11 OF 12



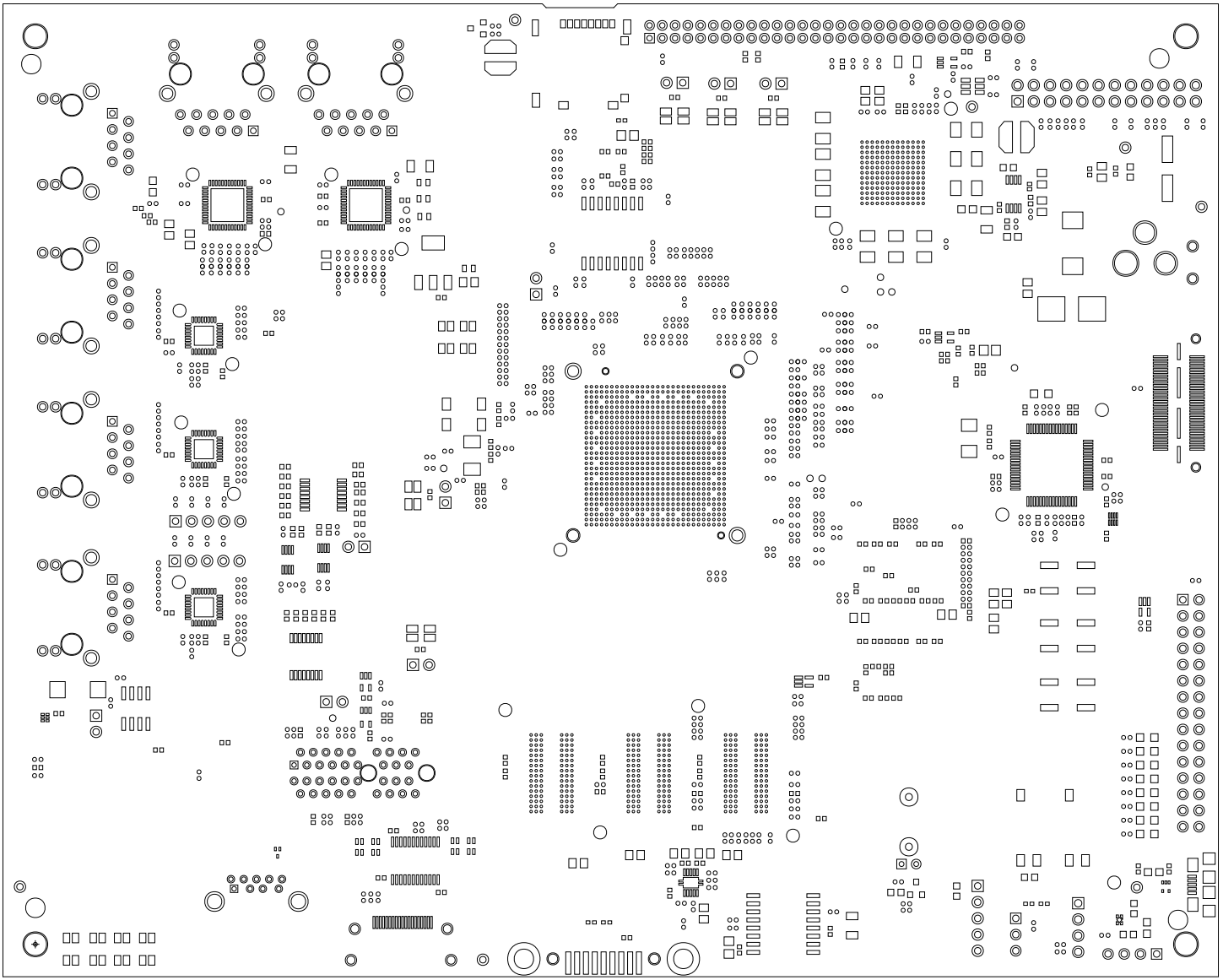
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: LAYER 12 BOTTOM SIDE		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 12 OF 12



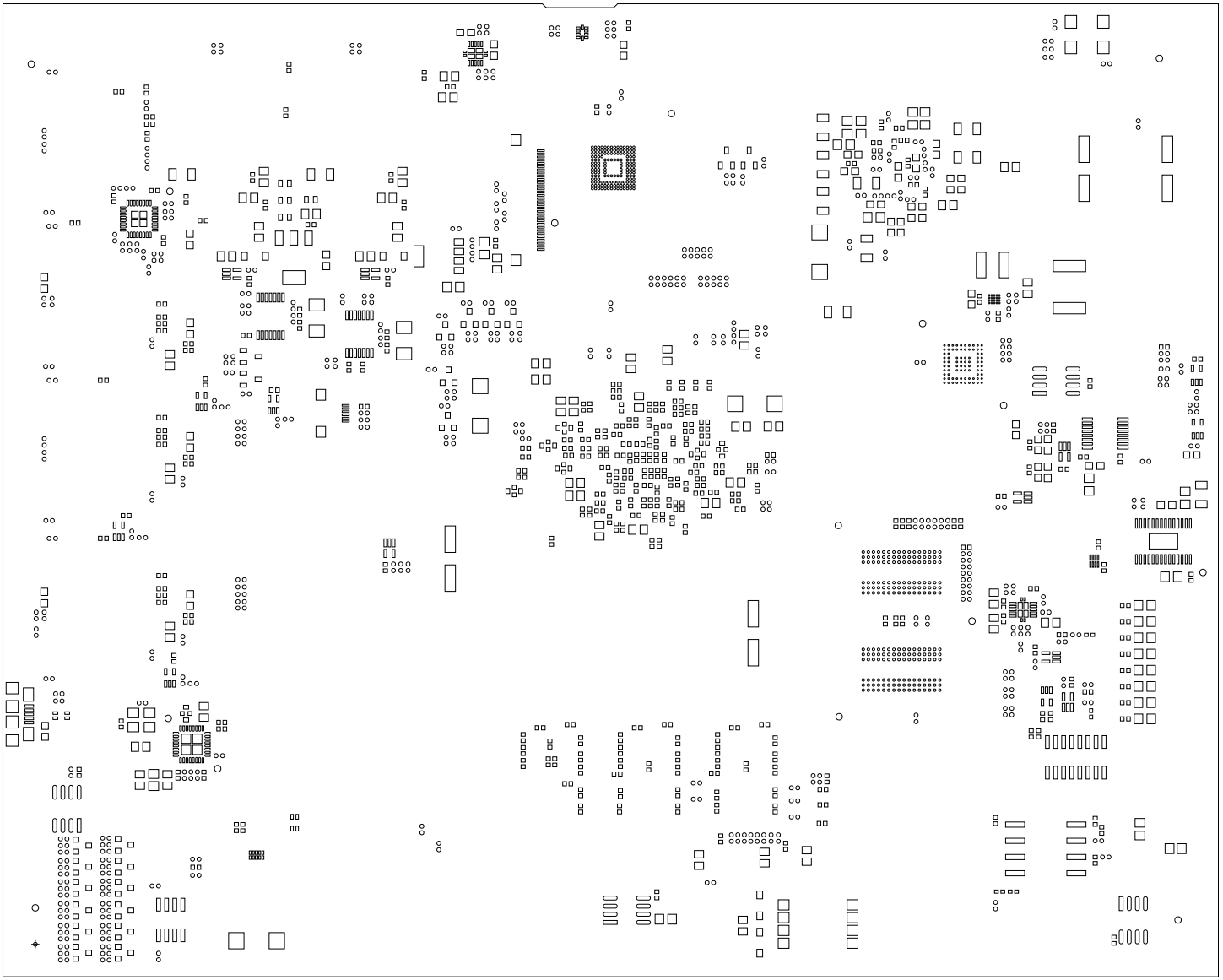
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: SELECTIVE PLATING TOP		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 1 OF 1



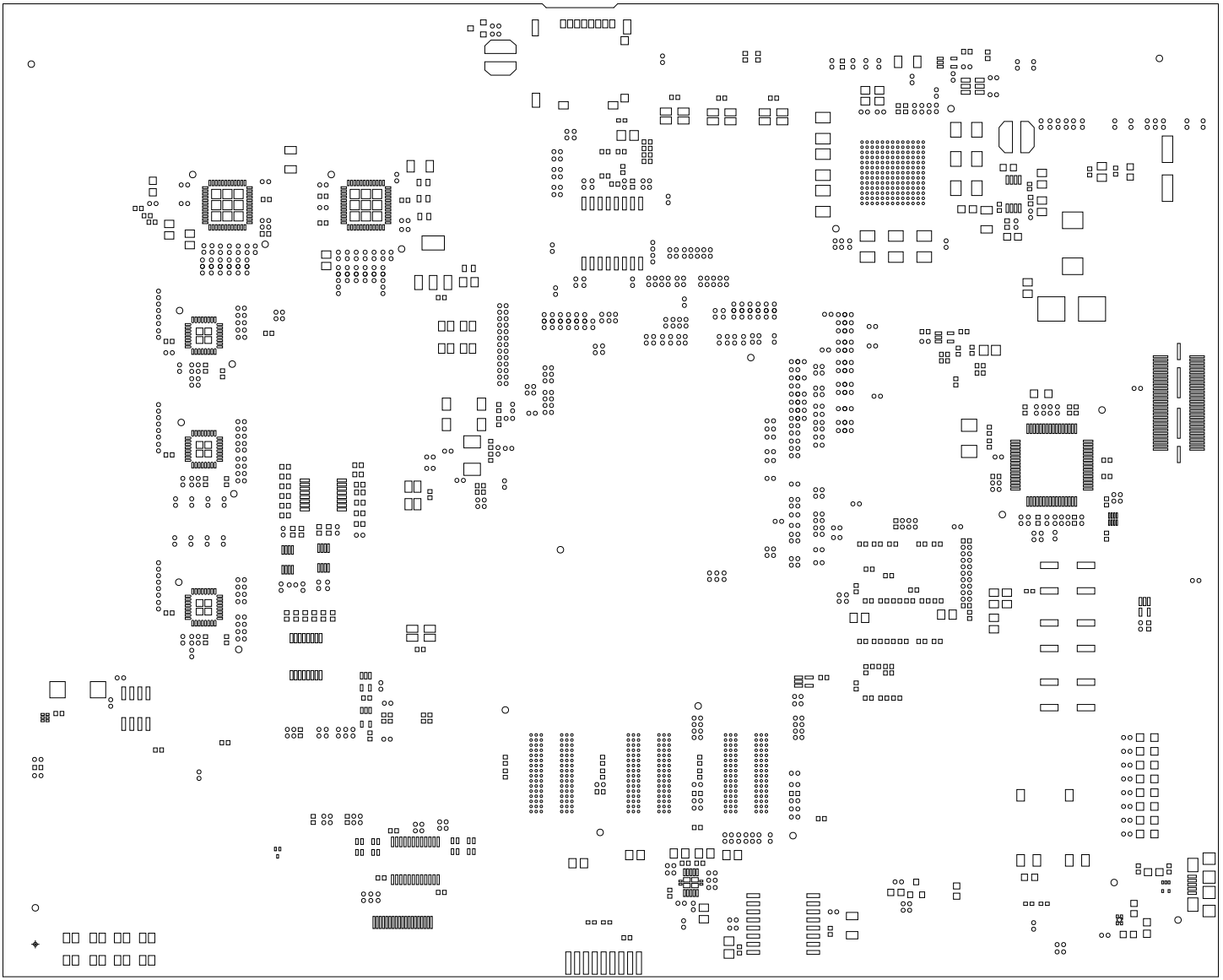
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: SOLDER MASK BOTTOM		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 2 OF 2



CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: SOLDER MASK TOP		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 1 OF 2

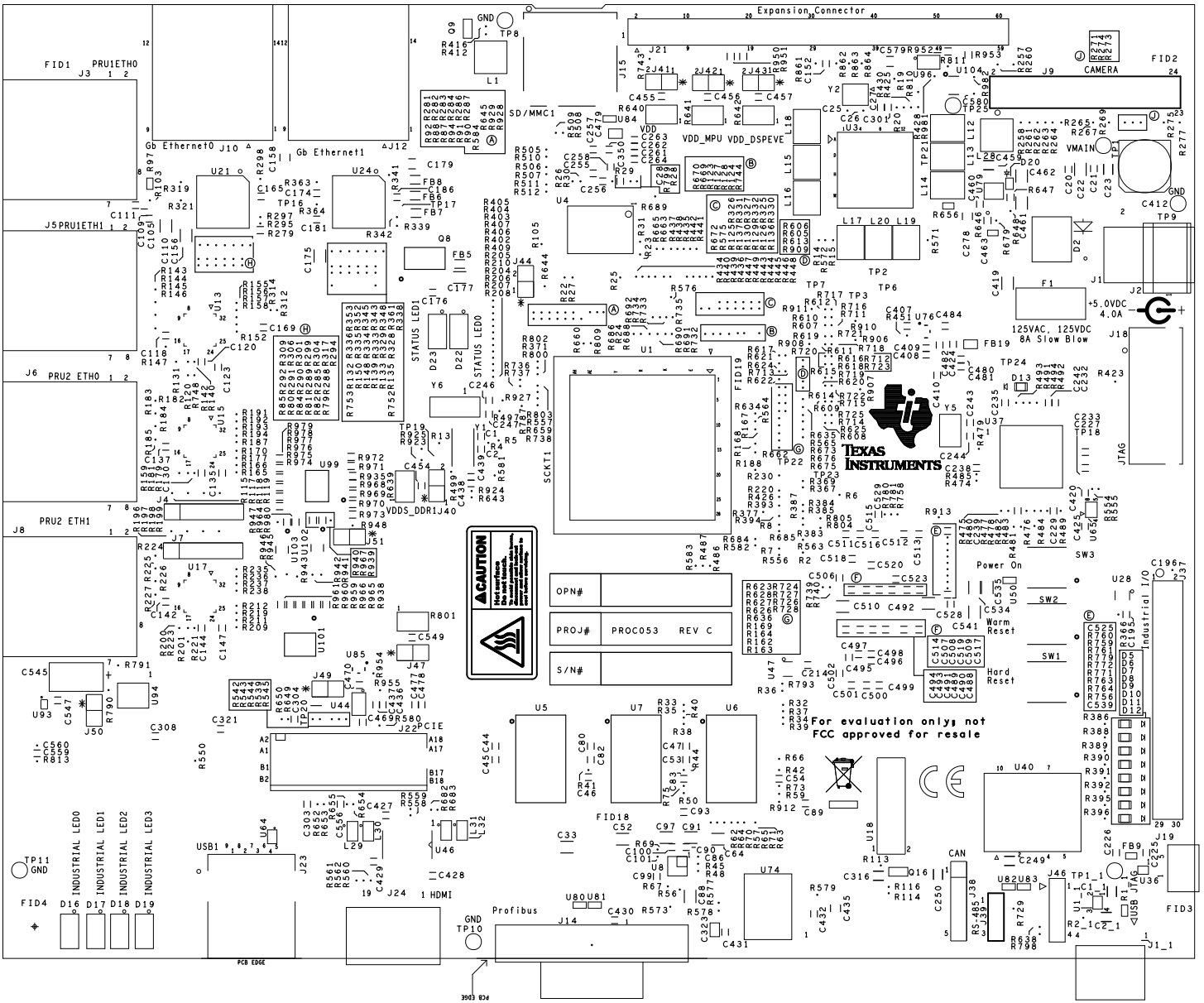


CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: SOLDER PASTE BOTTOM		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 2 OF 2

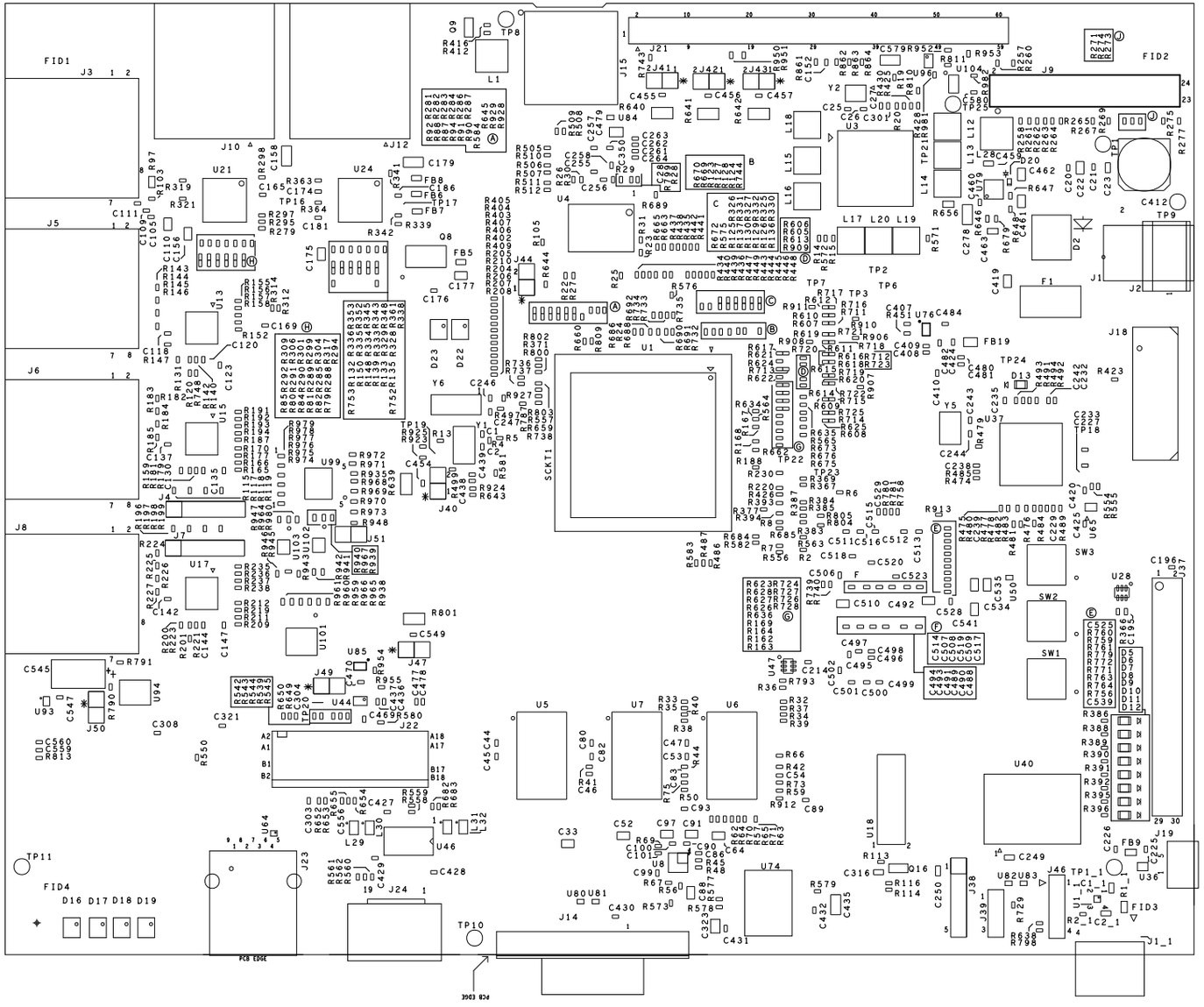


CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: SOLDER PASTE TOP		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 1 OF 2

CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: SILKSCREEN BOTTOM		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 2 OF 2



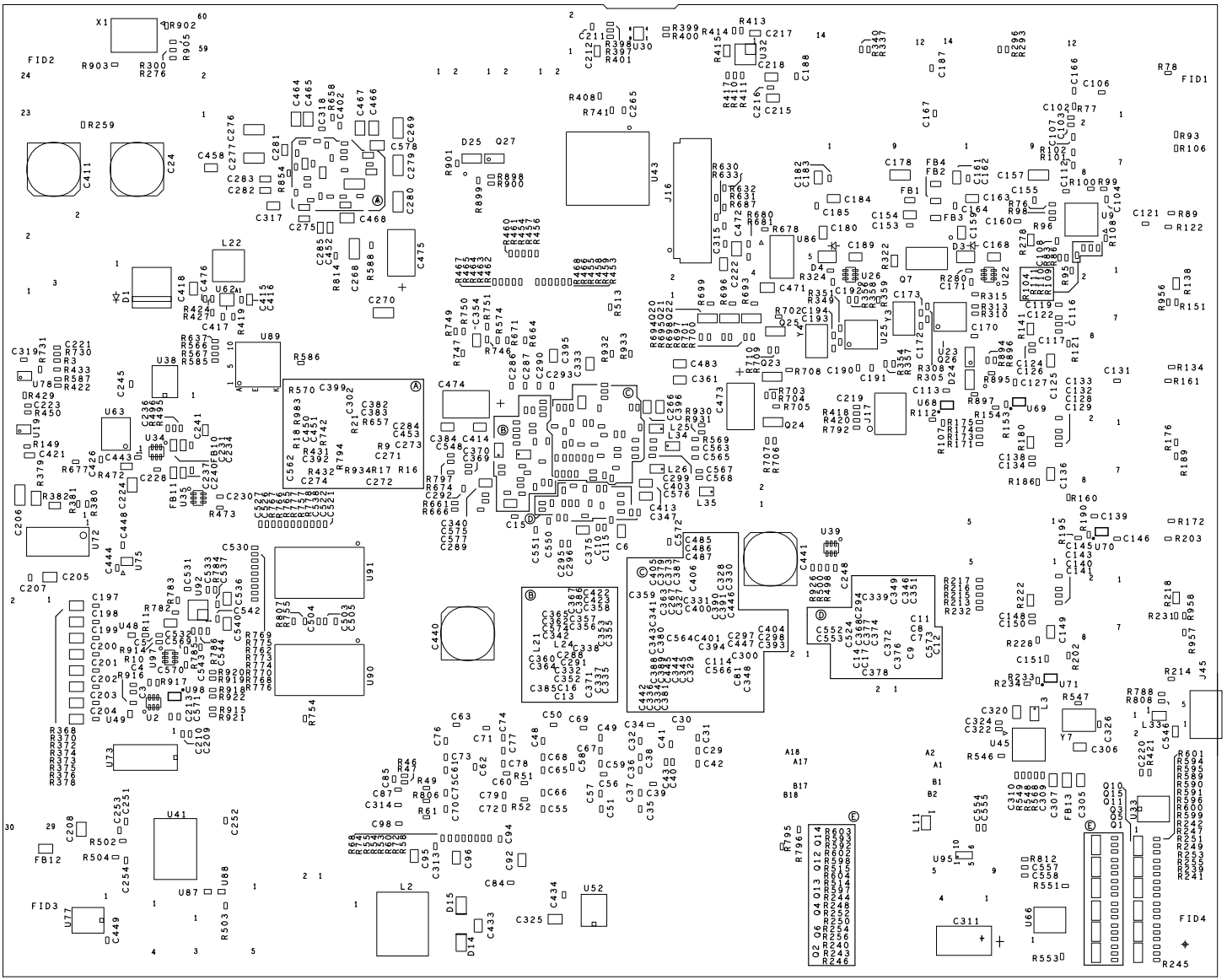
CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: SILKSCREEN TOP		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 1 OF 2



Assembly Notes:

1. These assemblies are ESD sensitive. ESD precautians shall be observed.
2. These assemblies must be clean and free from flux and all contaminants. Use of 'no clean flux' is not acceptable.
3. These assemblies must comply with workmanship standard IPC-A-610 Class 2, unless otherwise specified.
4. Each finished board will receive a serial number sticker during final testing.
5. Each finished board will receive a MAC Address sticker during final testing.
6. Install header shunt M1 (on J49) and M2 (on J50) during final testing.

CUSTOMER NAME: TEXAS INSTRUMENTS			
BOARD NAME: AM572X_INDUSTRIAL_EVM	DESCRIPTION: ASSEMBLY TOP		
BOARD NO: PROC053	REV: C	DATE: 11/06/2019	SH 1 OF 2



CUSTOMER NAME:	TEXAS INSTRUMENTS		
BOARD NAME: AM572X_INDUSTRIAL_EVM		DESCRIPTION: ASSEMBLY BOTTOM	
BOARD NO:PR0C053	REV:C	DATE:11/06/2019	SH 2 OF 2

IMPORTANT NOTICE AND DISCLAIMER

TI PROVIDES TECHNICAL AND RELIABILITY DATA (INCLUDING DATASHEETS), DESIGN RESOURCES (INCLUDING REFERENCE DESIGNS), APPLICATION OR OTHER DESIGN ADVICE, WEB TOOLS, SAFETY INFORMATION, AND OTHER RESOURCES “AS IS” AND WITH ALL FAULTS, AND DISCLAIMS ALL WARRANTIES, EXPRESS AND IMPLIED, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT OF THIRD PARTY INTELLECTUAL PROPERTY RIGHTS.

These resources are intended for skilled developers designing with TI products. You are solely responsible for (1) selecting the appropriate TI products for your application, (2) designing, validating and testing your application, and (3) ensuring your application meets applicable standards, and any other safety, security, or other requirements. These resources are subject to change without notice. TI grants you permission to use these resources only for development of an application that uses the TI products described in the resource. Other reproduction and display of these resources is prohibited. No license is granted to any other TI intellectual property right or to any third party intellectual property right. TI disclaims responsibility for, and you will fully indemnify TI and its representatives against, any claims, damages, costs, losses, and liabilities arising out of your use of these resources.

TI’s products are provided subject to TI’s Terms of Sale (www.ti.com/legal/termsofsale.html) or other applicable terms available either on ti.com or provided in conjunction with such TI products. TI’s provision of these resources does not expand or otherwise alter TI’s applicable warranties or warranty disclaimers for TI products.

Mailing Address: Texas Instruments, Post Office Box 655303, Dallas, Texas 75265