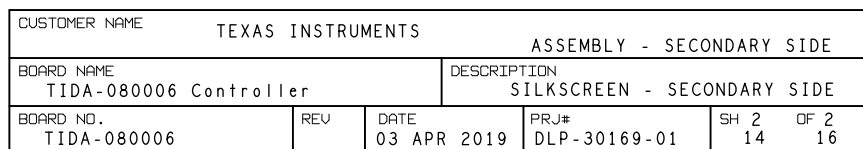
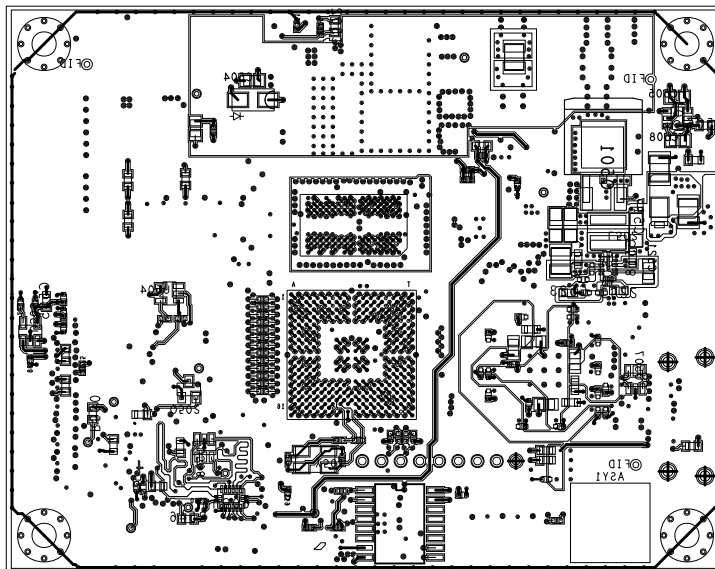


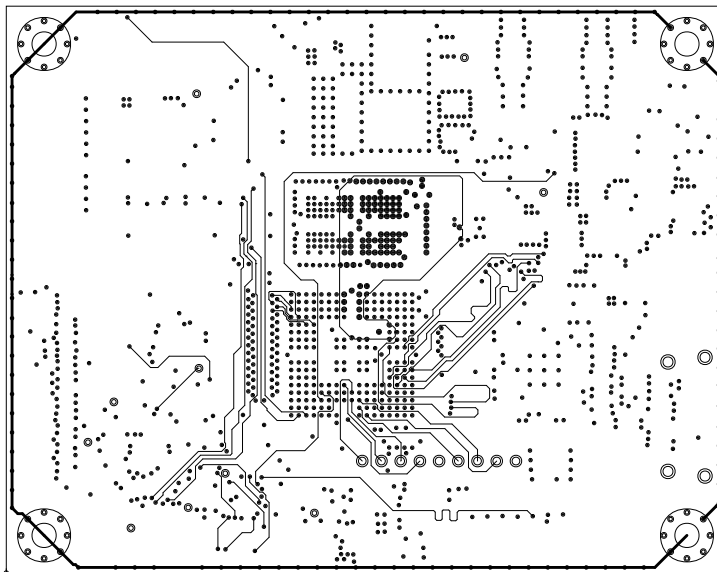


ART FILM - assyt

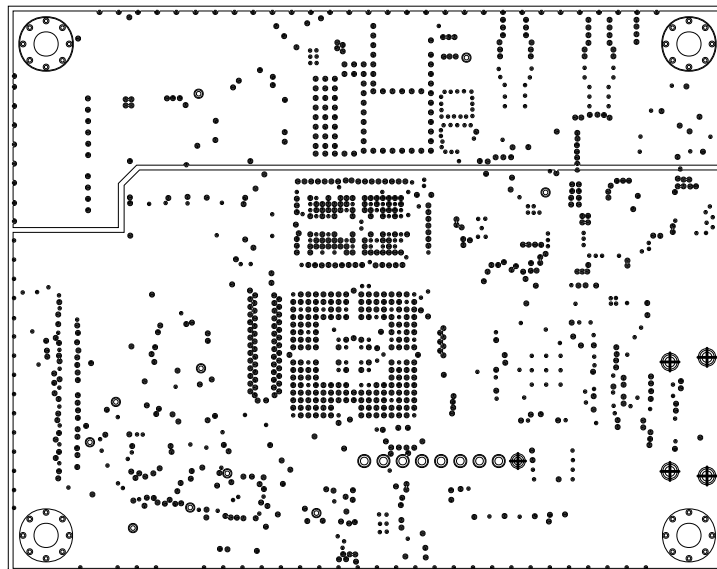




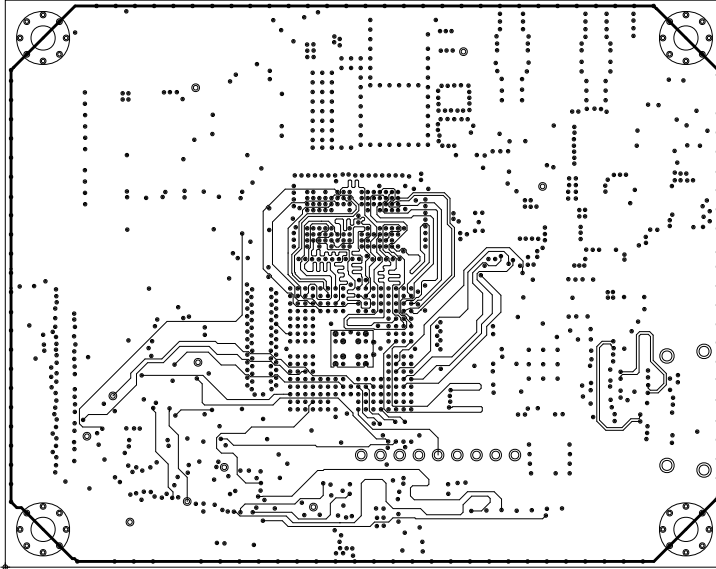
CUSTOMER NAME		TEXAS INSTRUMENTS		ASSEMBLY - SECONDARY SIDE			
BOARD NAME			DESCRIPTION				
TIDA-080006 Controller			LAYER 10 - SECONDARY SIDE				
BOARD NO.		REV	DATE	PRJ#	SH	OF	
TIDA-080006			03 APR 2019	DLP-30169-01	2 10	2 16	



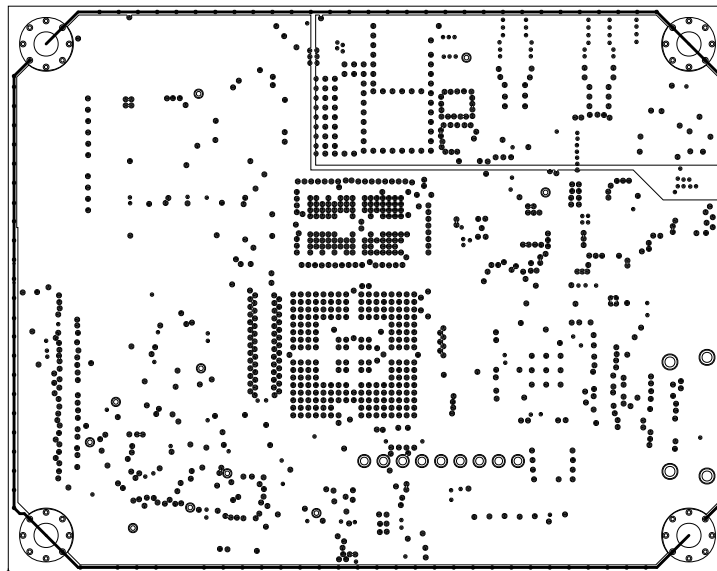
CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			LAYER 2 - SIGNAL		
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	2	16



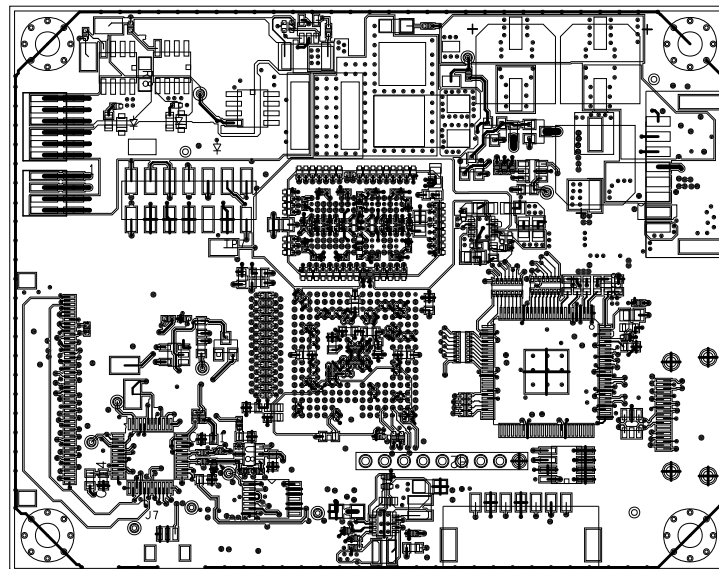
CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			LAYER 3 - GND PLANE		
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	3	16



CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			LAYER 4 - SIGNAL		
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	4	16



CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			LAYER 5 - PWR PLANE		
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	5	16



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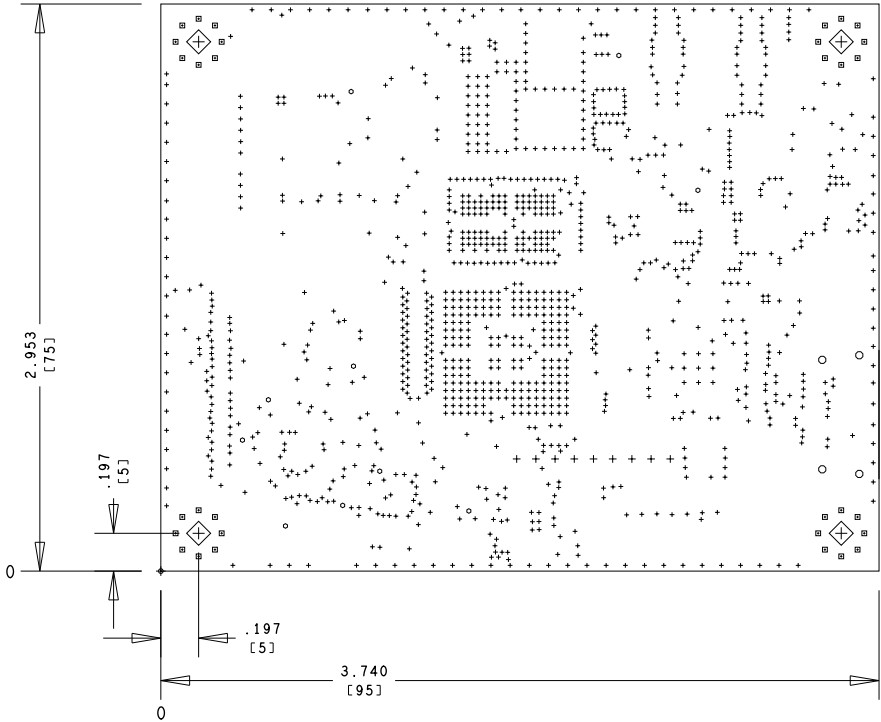
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CUSTOMER NAME		TEXAS INSTRUMENTS		ASSEMBLY - PRIMARY SIDE			
BOARD NAME			DESCRIPTION				
TIDA-080006 Controller			LAYER 1 - PRIMARY SIDE				
BOARD NO.		REV	DATE	PRJ#	SH 1	OF 2	
TIDA-080006			03 APR 2019	DLP-30169-01	1	16	

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
+	8.0	+3.0/-8.0	PLATED	1282
■	18.0	+3.0/-3.0	PLATED	32
○	24.0	+3.0/-3.0	PLATED	10
+	40.0	+0.0/-0.0	PLATED	9
○	52.0	+3.0/-3.0	PLATED	4
⊠	126.0	+3.0/-3.0	PLATED	4

LAYER STACK:

- LAYER 1 - PRIMARY SIDE - SIGNAL AND GND FILL
1.0 oz START PLATED UP TO 2 oz.
.0048
- LAYER 2 - SIGNAL - 0.5oz - 50 OHMS - .0045 WIDTH
~~DIFFERENTIAL 100 OHMS - .004 WIDTH/.010 SPACE~~
.0035
- LAYER 3 - GND PLANE - 1oz
.0052
- LAYER 4 - SIGNAL - 0.5oz - 50 OHMS - .0045 WIDTH
DIFFERENTIAL 100 OHMS - .004 WIDTH/.010 SPACE
.0060
- LAYER 5 - PWR PLANE - 1oz
.00101
- LAYER 6 - PWR PLANE - 1oz
.0060
- LAYER 7 - SIGNAL - 0.5oz - 50 OHMS - .0045 WIDTH
DIFFERENTIAL 100 OHMS - .004 WIDTH/.010 SPACE
.0052
- LAYER 8 - GND PLANE - 1oz
.0035
- LAYER 9 - SIGNAL - 0.5oz - 50 OHMS - .0045 WIDTH
~~DIFFERENTIAL 100 OHMS - .004 WIDTH/.010 SPACE~~
.0049
- LAYER 10 - SECONDARY SIDE - SIGNAL AND GND FILL
1.0 oz START PLATED UP TO 2 oz.



PRIMARY SIDE VIEW

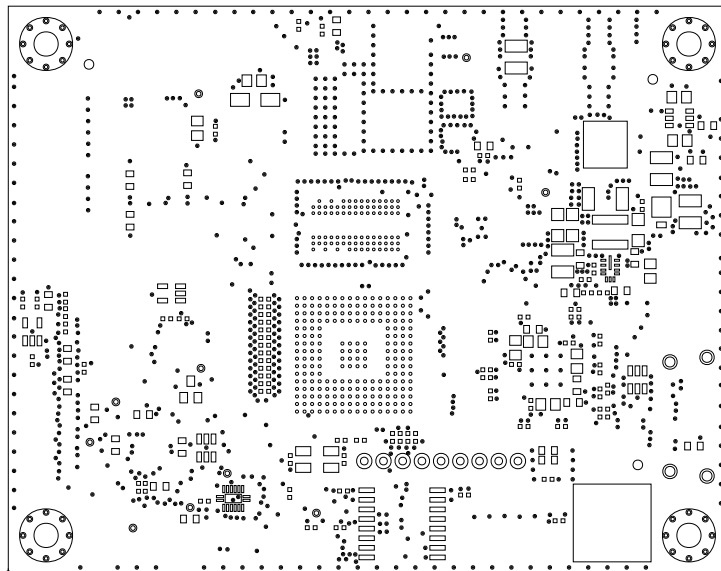
CUSTOMER NAME TEXAS INSTRUMENTS					
BOARD NAME TIDA-080006 Controller			DESCRIPTION FABRICATION DRAWING		
BOARD NO. TIDA-080006	REV	DATE 03 APR 2019	PRJ# DLP-30169-01	SH 1	OF 1

FAB NOTES:

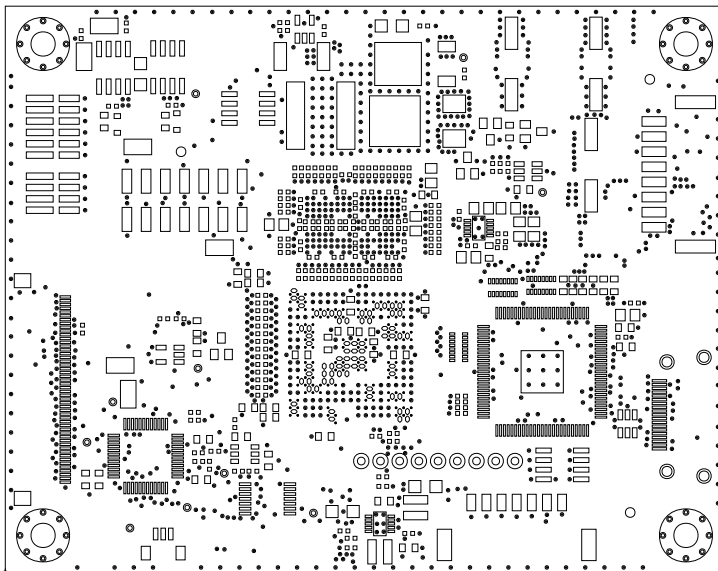
1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. ALL BOARD OUTLINE DIMENSION TOLERANCES ARE +/- .010".
2. THE PWB SHALL BE FABRICATED TO IPC-6012, CLASS 2 AND WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2, CURRENT REVISIONS.
3. BOARD MATERIAL SHALL BE 180 Tg/340 Td ISOLA FR-370HR OR EQUIVALENT, ROHS AND REACH COMPLIANT AND LEAD FREE ASSEMBLY CAPABLE. BOARD MATERIAL SHALL MEET OR EXCEED IPC-4101B, ROHS AND REACH CERTIFICATE OF CONFORMANCE SHALL BE DELIVERED WITH EACH LOT.
4. BOARD MATERIAL & CONSTRUCTION TO BE UL94V-0 APPROVED AND MARKED ON THE FINISHED BOARD.
5. MINIMUM COPPER WALL THICKNESS OF PLATED-THRU HOLES TO BE .001 INCH, WITH A MINIMUM ANNULAR RING OF .001 INCH.
6. OVERALL BOARD THICKNESS TO BE .062 +/- 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. ANY DESCREPNCY BETWEEN FABRICATION PRINT AND THE ACTUAL FABRICATION DATA MUST BE REVIEWED AND APPROVED BY TI.

PROCESS NOTES:

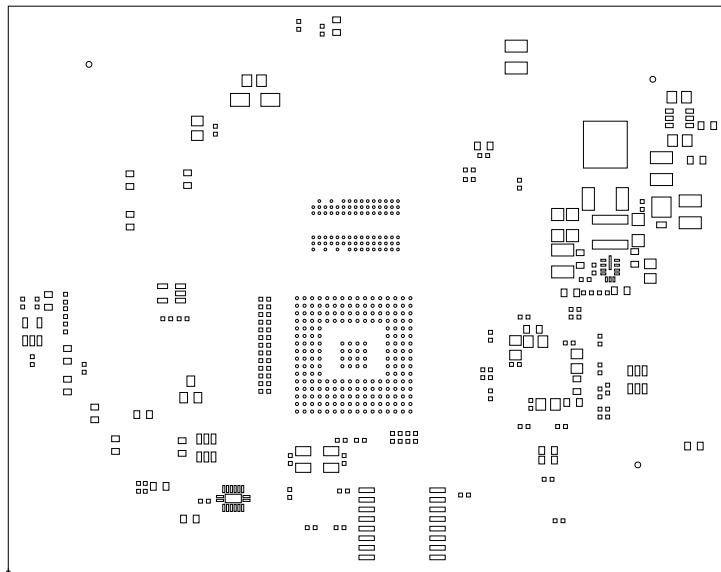
1. PLATE ALL EXPOSED AREAS WITH ELECTROLESS IMMERSION GOLD, NICKEL 100 MIN MICROINCHES THK GOLD 2-6 MICROINCHES THK.
2. APPLY LDI SOLDERMASK. COLOR: BLACK. SOLDERMASK SHALL CONFORM TO IPC-SM-840, CLASS H, CURRENT REV. SOLDERMASK SHALL BE COMPATIBLE WITH SAC305 OR EQUIVALENT SOLDER ALLOY AND SOLDER FLOAT BATH TEMPERATURE OF 288°C.
3. FABRICATION VENDOR IS ALLOWED TO INCREASE SOLDERMASK COMPONENT PADS BY A MAXIMUM 1 MIL ON EACH SIDE OVER THE COPPER PAD IN ORDER TO MEET TOOLING REQUIREMENTS WHILE MAINTAINING WEBBING BETWEEN ADJACENT PADS.
4. SOLDERABILITY SHALL BE IN ACCORDANCE WITH IPC/EIA J-STD-003A, WITH SOLDER BATH TEMPERATURE OF 250°C +/-5 C FOR DIP OR ROTARY TEST.
5. APPLY LPI SILKSCREEN OR EQUIVALENT PER THE ARTWORK. COLOR: WHITE.
6. BOARD MUST BE ELECTRICALLY TESTED USING SUPPLIED IPC-D-356 NETLIST.
7. VENDOR MUST SUPPLY PANELIZED PASTE LAYERS TO SVTRONICS FOR PASTEMASK STENCIL.



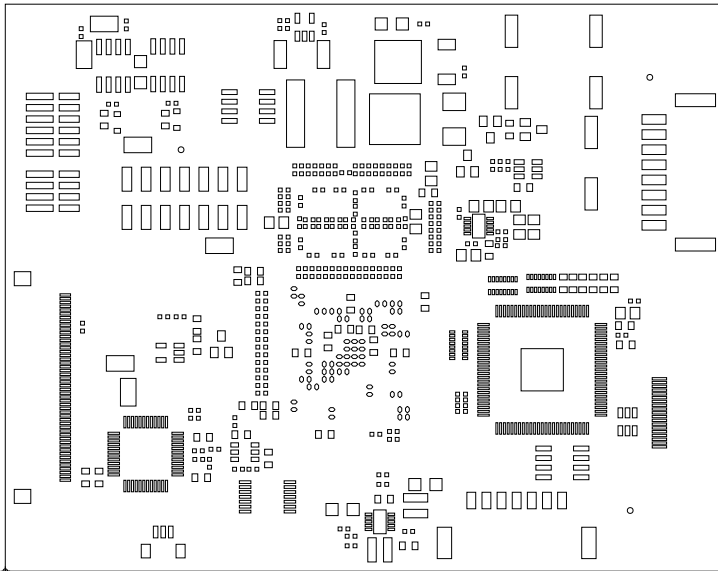
CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME		TIDA-080006 Controller		DESCRIPTION	
				SOLDERMASK - SECONDARY SIDE	
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	12	16



CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			SOLDERMASK - PRIMARY SIDE		
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	11	16



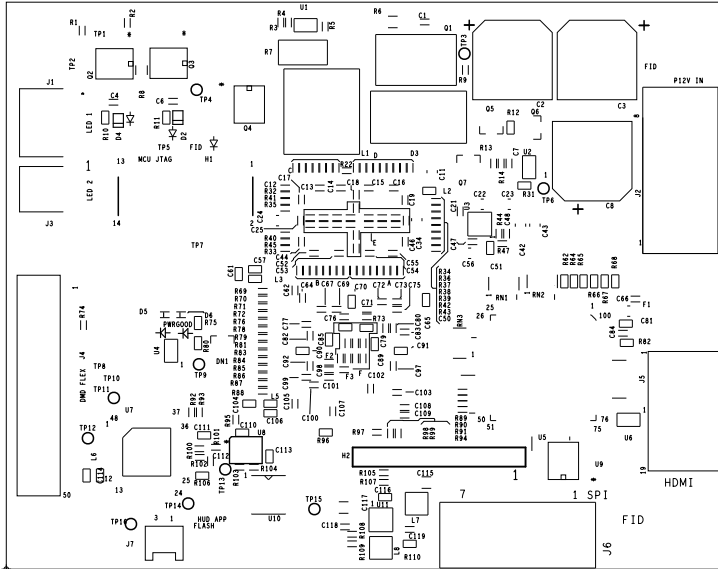
CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			SOLDERPASTE - SECONDARY SIDE		
BOARD NO.	REV	DATE	PRJ#	SH	QF
TIDA-080006		03 APR 2019	DLP-30169-01	16	16



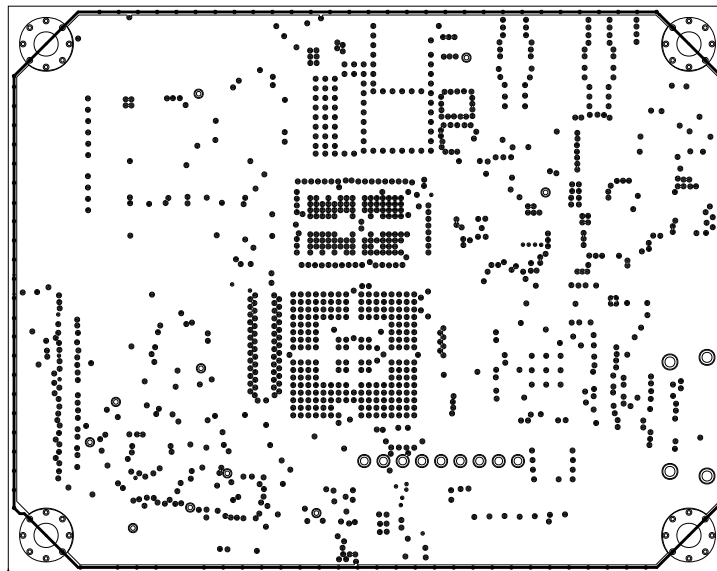
CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			SOLDERPASTE - PRIMARY SIDE		
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	15	16



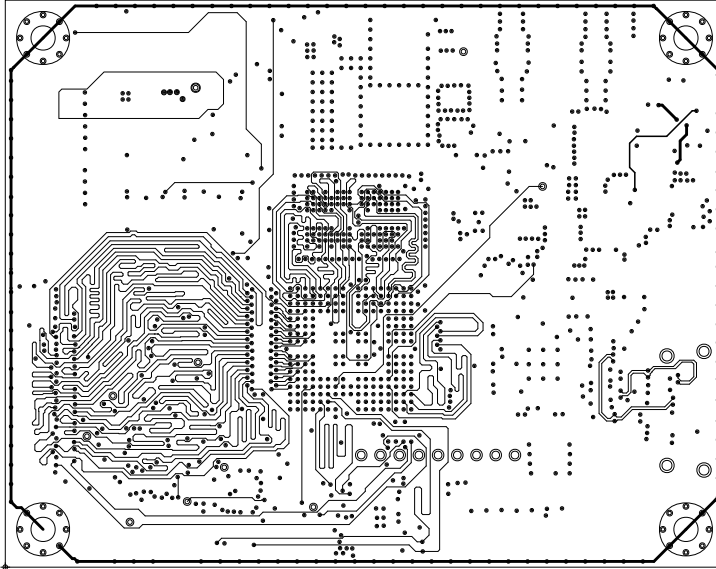
ART FILM - ssb



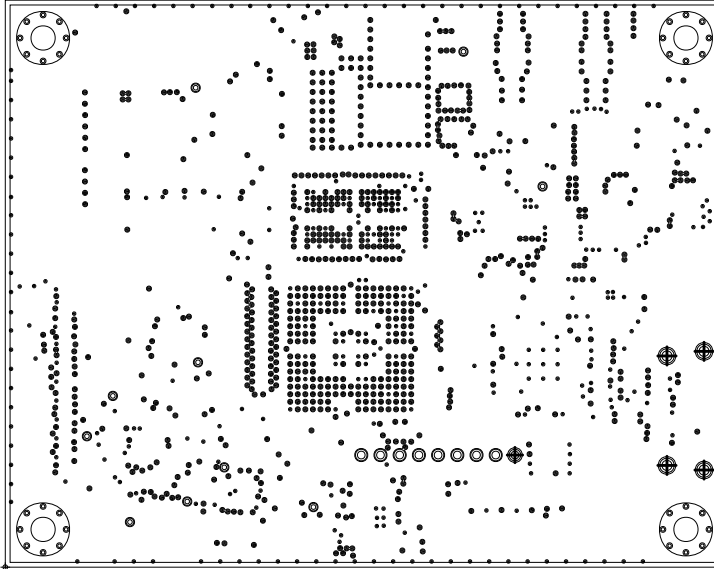
CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			SILKSCREEN - PRIMARY SIDE		
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	13	16



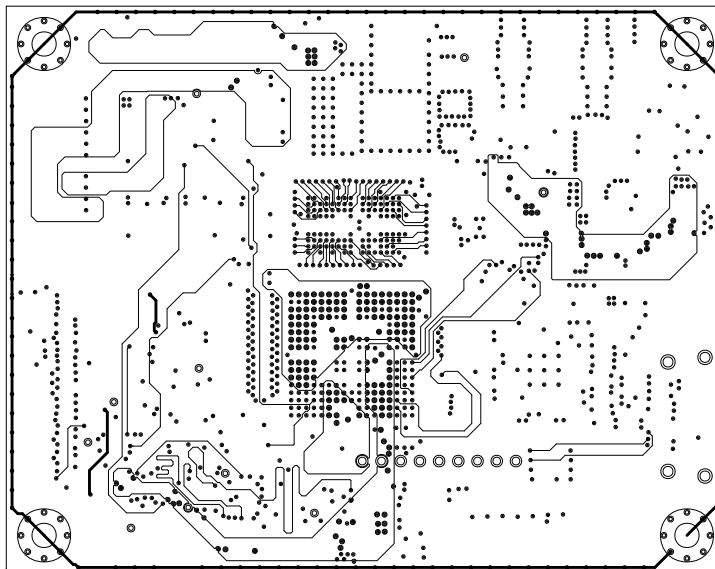
CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			LAYER 6 - PWR PLANE		
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	6	16



CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			LAYER 7 - SIGNAL		
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	7	16



CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			LAYER 8 - GND PLANE		
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	8	16



CUSTOMER NAME		TEXAS INSTRUMENTS			
BOARD NAME			DESCRIPTION		
TIDA-080006 Controller			LAYER 9 - SIGNAL		
BOARD NO.	REV	DATE	PRJ#	SH	OF
TIDA-080006		03 APR 2019	DLP-30169-01	9	16