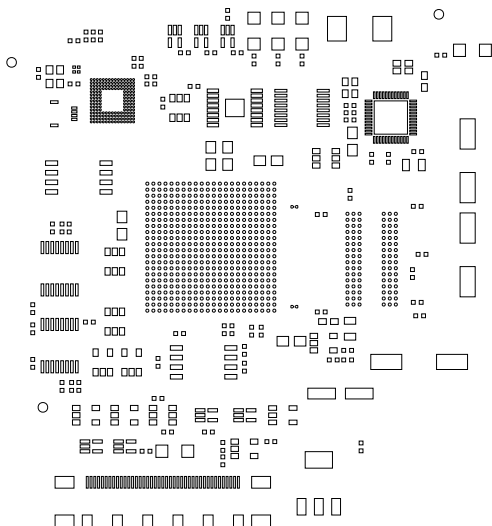
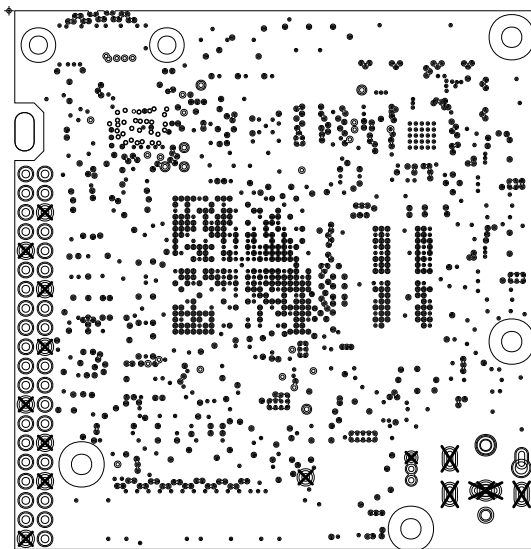


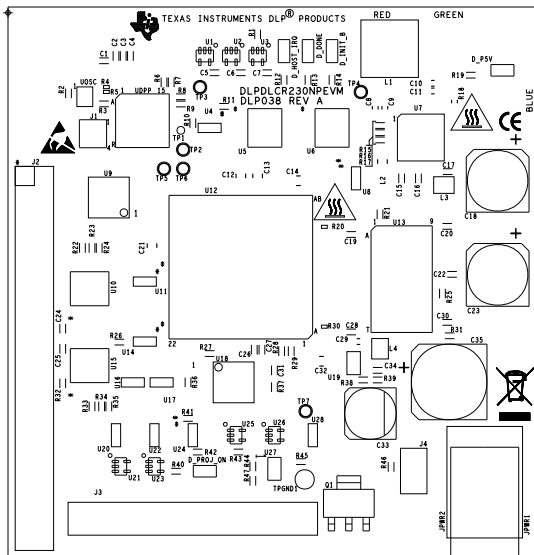
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
		SOLDERMASK - PRIMARY SIDE				
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	QF
		A	29-MAY-2020	TIDL P-118506-03	13	19



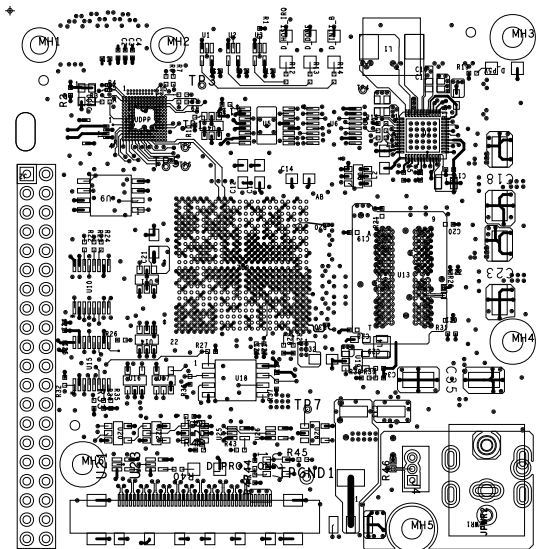
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION SOLDERPASTE - PRIMARY SIDE		
BOARD NO.	DLP038	REV A	DATE 29-MAY-2020	PRJ# TIDL P-118506-03	SH 17	OF 19



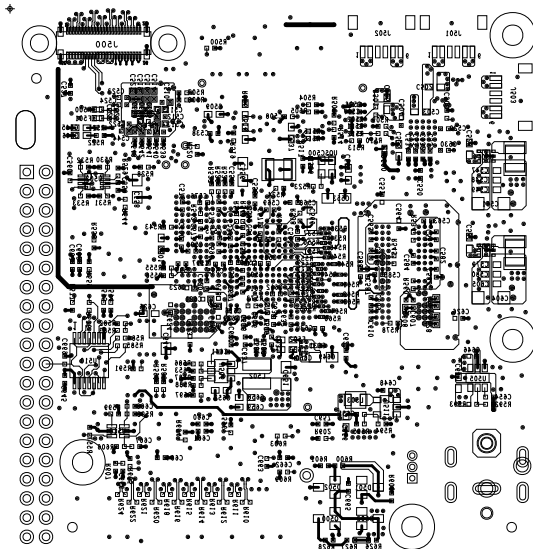
CUSTOMER NAME				TEXAS INSTRUMENTS		DRAWN	
BOARD NAME			DESCRIPTION				
DLPDLCR230NPEVM			LAYER 5 - GND PLANE				
BOARD NO.	REV	DATE	PRJ#	SH	OF	19	
DLP038	A	29-MAY-2020	TIDL P-118506-03	5			



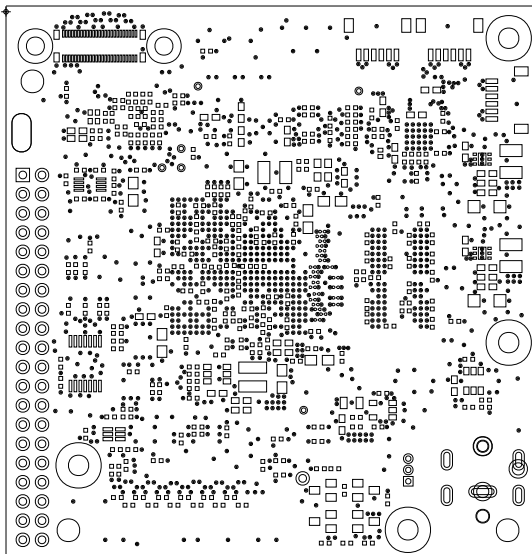
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
				SILKSCREEN - PRIMARY SIDE		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	15	19



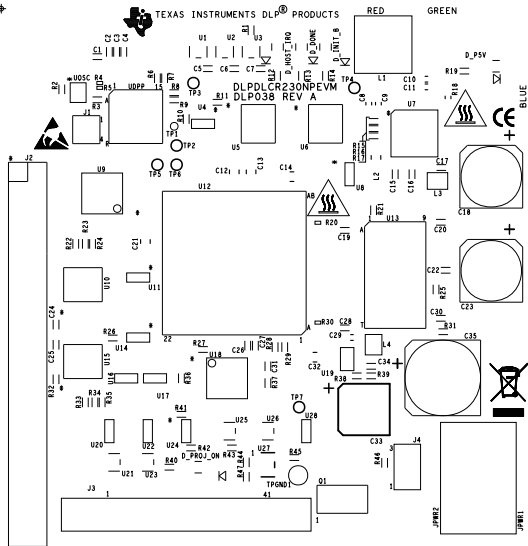
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
				LAYER 1 - PRIMARY SIDE		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	1	19



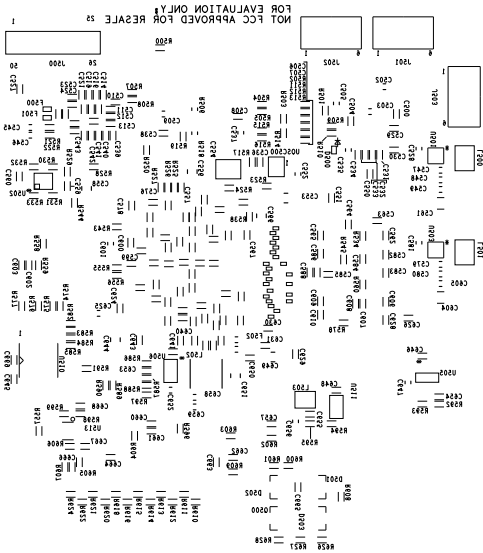
CUSTOMER NAME				TEXAS INSTRUMENTS		DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION			
				LAYER 12 - SECONDARY SIDE			
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF	19
		A	29-MAY-2020	TIDL P-118506-03	12		



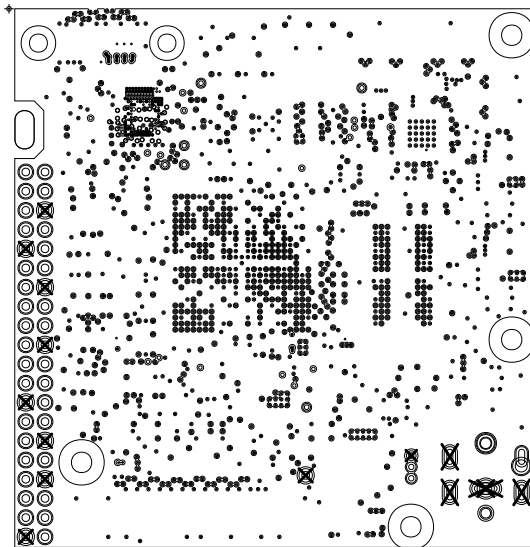
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
				SOLDERMASK - SECONDARY SIDE		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	QF
		A	29-MAY-2020	TIDL P-118506-03	14	19



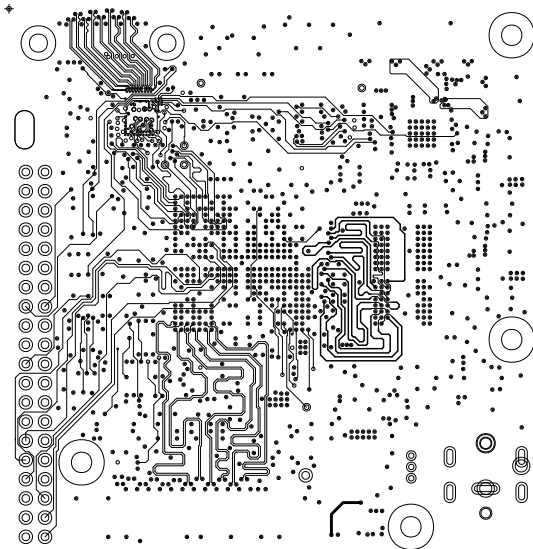
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
		SILKSCREEN - PRIMARY SIDE				
BOARD NO.	DLP038	REV	DATE	FRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	15	19



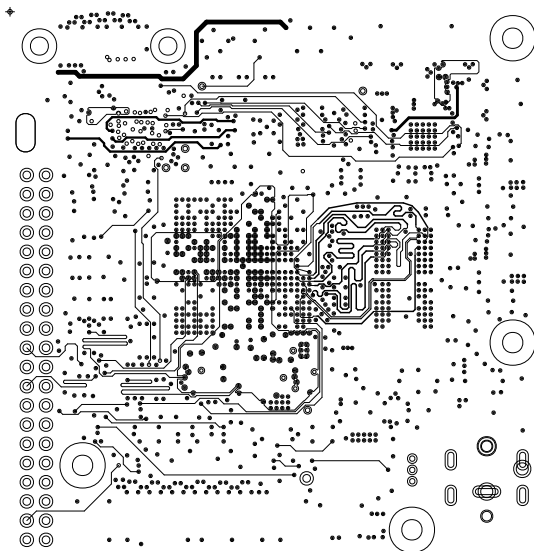
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
		SILKSCREEN - SECONDARY SIDE				
BOARD NO.		REV	DATE	FRJ#	SH	OF
DLP038		A	29-MAY-2020	TIDL P-118506-03	16	19



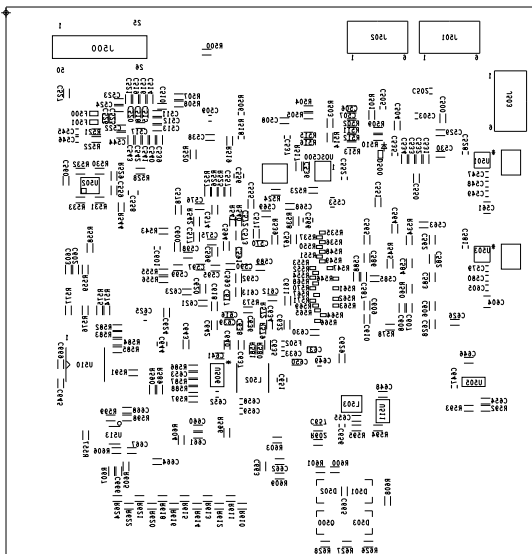
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM			DESCRIPTION	
					LAYER 2 - GND PLANE	
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	2	19



CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
				LAYER 3 - SIGNAL		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	3	19



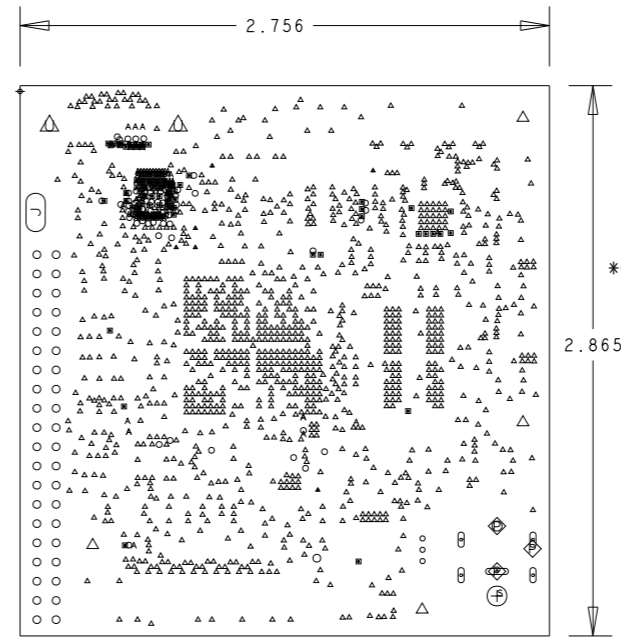
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
				LAYER 4 - SIGNAL		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	4	19



CUSTOMER NAME				TEXAS INSTRUMENTS		DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION			
BOARD NO.		DLP038	REV A	DATE 29-MAY-2020	PRJ# TIDL P-118506-03	SH	OF 19

LAYER 1	0.0005	STACKUP	SOLDERMASK	1/2oz Sig (Std Plt) - 50 Ohms - 0.005 width
	0.0020			40 Ohms - 0.008 width
				68 Ohms - 0.004 width
	0.0027	1080	FR408H	100 Ohms Differential - 0.0041 width/0.00575 Space
LAYER 2	0.0006		1/2oz P/G	
	0.0040	0.0035 (1-3313)	FR408H	
LAYER 3	0.0006		1/2oz SIG	50 Ohms - 0.005 width
				40 Ohms - 0.0077 width
				100 Ohms Differential - 0.00425 width/0.00575 Space
	0.0072	1080	FR408H	
		106		
		1080		
LAYER 4	0.0006		1/2oz SIG	50 Ohms - 0.005 width
	0.0040	0.0035 (1-3313)	FR408H	40 Ohms - 0.0077 width
				80 Ohms Differential - 0.0058 width/0.0042 Space
LAYER 5	0.0006		1/2oz P/G	
LAYER 6	0.0027	1080	FR408H	
	0.0006		1/2oz P/G	
	0.0120	2113	FR408H	
		2116		
		2116		
		2113		
LAYER 7	0.0006		1/2oz P/G	
	0.0027	1080	FR408H	
LAYER 8	0.0006		1/2oz P/G	
	0.0040	0.0035 (1-3313)	FR408H	
LAYER 9	0.0006		1/2oz SIG	50 Ohms - 0.005 width
				40 Ohms - 0.0077 width
				80 Ohms Differential - 0.0058 width/0.0042 Space
				100 Ohms Differential - 0.00425 width/0.00575 Space
	0.0072	1080	FR408H	
		106		
		1080		
LAYER 10	0.0006		1/2oz SIG	50 Ohms - 0.005 width
	0.0040	0.0035 (1-3313)	FR408H	40 Ohms - 0.0077 width
				80 Ohms Differential - 0.0058 width/0.0042 Space
LAYER 11	0.0006		1/2oz P/G	100 Ohms Differential - 0.00425 width/0.00575 Space
	0.0027	1080	FR408H	
LAYER 12	0.0020		1/2oz Sig (Std Plt)	50 Ohms - 0.005 width
	0.0005		SOLDERMASK	40 Ohms - 0.008 width
				68 Ohms - 0.004 width

DRILL CHART: TOP to LY2GND				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
A	4.0	+0.0/-4.0	PLATED	127
DRILL CHART: LY2GND to LY3				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
A	4.0	+0.0/-4.0	PLATED	61
DRILL CHART: LY2GND to LY11GND				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
O	8.0	+0.0/-8.0	PLATED	53
DRILL CHART: LY10 to LY11GND				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
A	4.0	+0.0/-4.0	PLATED	11
DRILL CHART: LY11GND to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
#	4.0	+0.0/-4.0	PLATED	70
DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
△	8.0	+0.0/-8.0	PLATED	1226
▲	24.0	+3.0/-3.0	PLATED	6
○	28.0	+3.0/-3.0	PLATED	3
○	40.0	+3.0/-3.0	PLATED	41
○	55.0	+3.0/-3.0	PLATED	1
⊕	63.0	+0.0/-0.0	PLATED	3
△	94.0	+0.0/-0.0	PLATED	2
△	106.0	+0.0/-0.0	PLATED	4
⊕	63.39	+3.0/-3.0	NON-PLATED	1
⊕	78.74x31.5	+3.0/-3.0	PLATED	4
⊕	118.11x31.5	+3.0/-3.0	PLATED	1
⊕	200.0x100.0	+4.0/-4.0	NON-PLATED	1



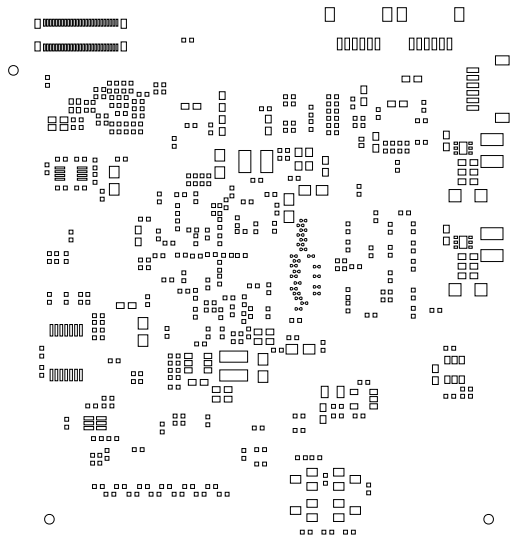
FAB NOTES:

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 ISOLA FR408HR 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. ALL BOARDS MUST MEET OR EXCEED UL94V-0 REQUIREMENTS. PCB MUST BEAR THE UL94V-0 UL REGISTERED MATERIAL ID NUMBER.
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 .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.

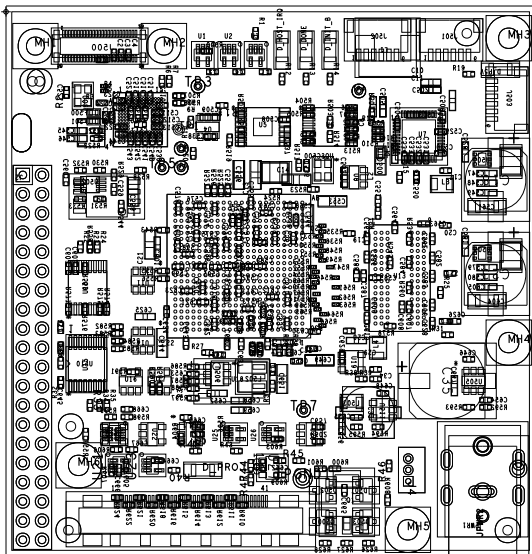
PROCESS NOTES:

1. EXCEPT AS NOTED BELOW, PLATE ALL EXPOSED AREAS WITH ELECTROLESS IMMERSION GOLD, NICKEL 100 MIN MICROINCHES THK GOLD 2-6 MICROINCHES THK.
2. FABRICATOR TO REMOVE UNUSED PADS ON INTERNAL LAYERS.
3. MINIMUM TRACE/SPACE UNDER UDPP IS .0023/.0023
4. APPLY LDI SOLDERMASK. COLOR: RED. 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.
5. SOLDERMASK ARTWORK HAS ZERO (0) OVERSIZED PADS. FABRICATOR IS ALLOWED TO ADJUST THE COMPONENT SOLDERMASK PADS TO MEET THEIR TOOLING REQUIREMENTS WHILE MAINTAINING WEBBING BETWEEN ADJACENT PADS.
6. 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.
7. APPLY LPI SILKSCREEN OR EQUIVALENT PER THE ARTWORK. COLOR: WHITE.
8. BOARD MUST BE ELECTRICALLY TESTED USING SUPPLIED IPC-D-356 NETLIST.

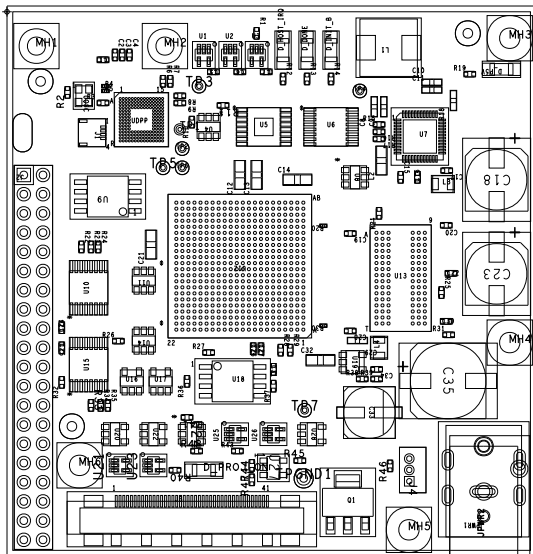
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN		
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION			
		DRILL DRAWING					
BOARD NO.	DLP038	REV	A	DATE	29-MAY-2020	PRJ#	TIDL-118506-03
		SH	19	OF	19		



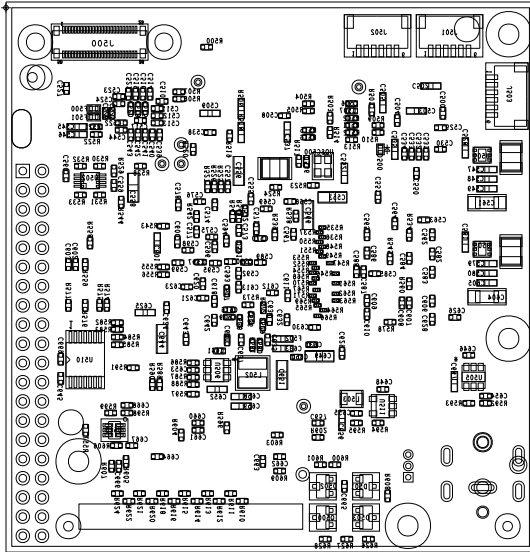
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DESCRIPTION				
DLPDLCR230NPEVM		SOLDERPASTE - SECONDARY SIDE				
BOARD NO.	REV	DATE	PRJ#	SH	OF	
DLP038	A	29-MAY-2020	TIDL P-118506-03	18	19	



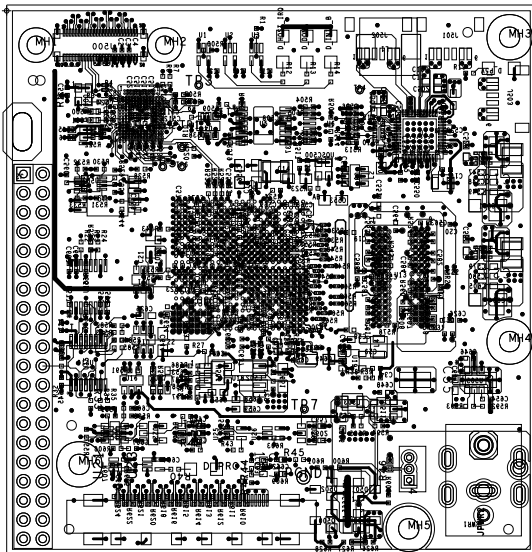
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03		19



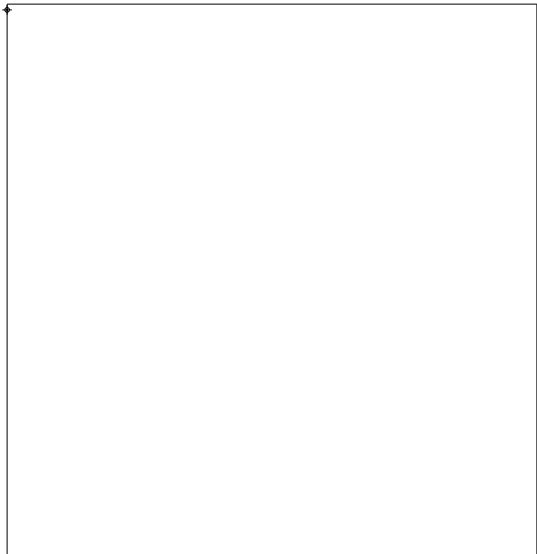
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03		19

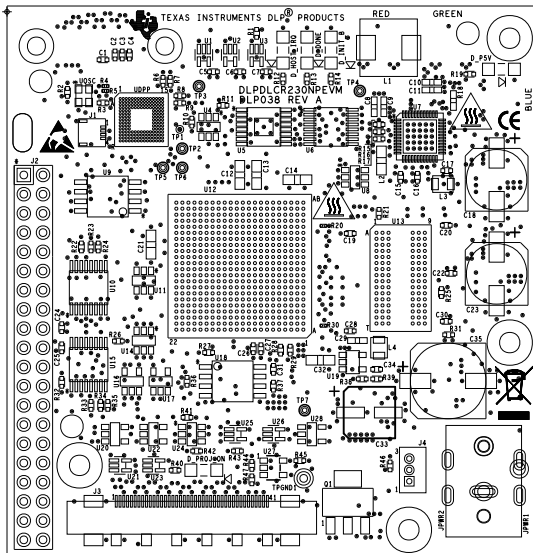


CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03		19

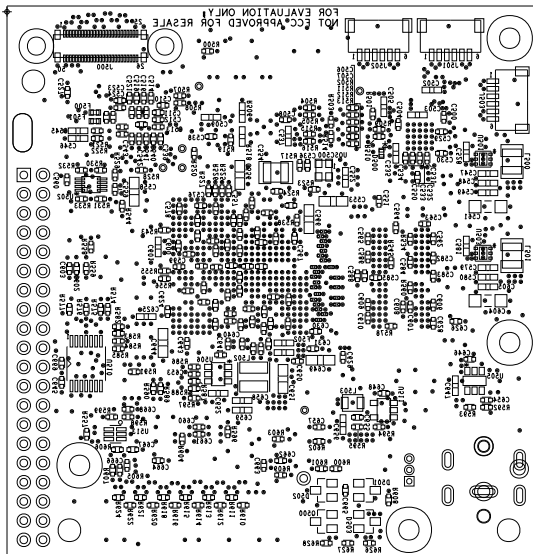


CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
				LAYER 12 - SECONDARY SIDE		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL-118506-03	12	19

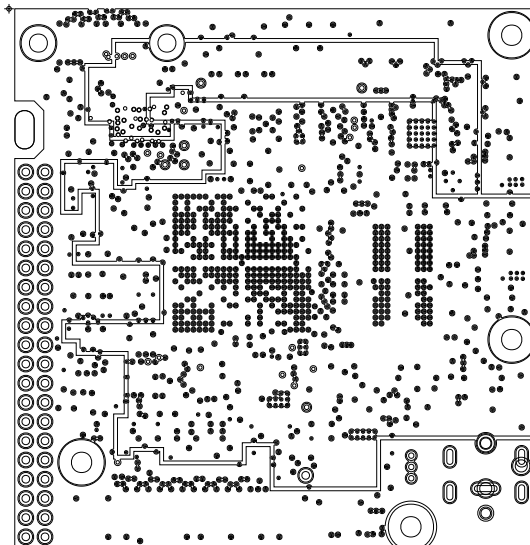




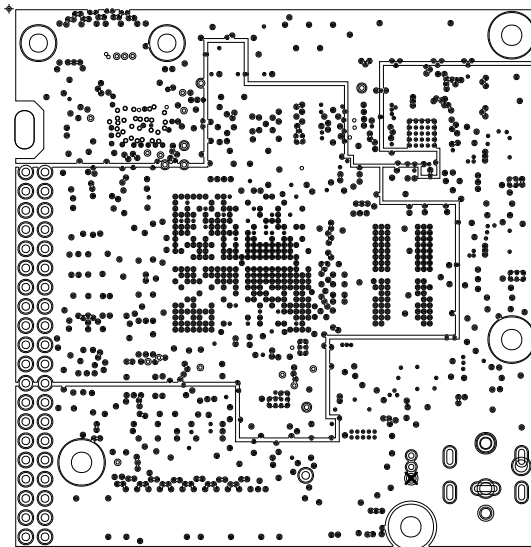
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
		SILKSCREEN - PRIMARY SIDE				
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	15	19



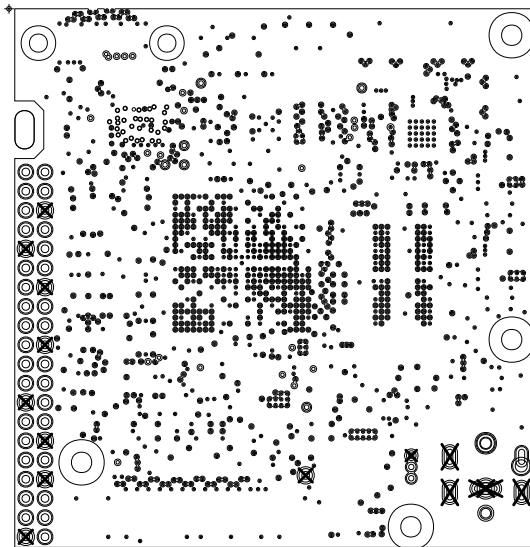
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BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
				SILKSCREEN - SECONDARY SIDE		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	16	19



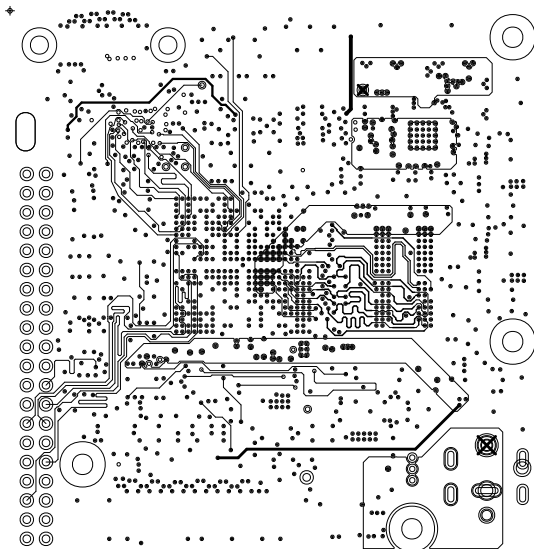
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
				LAYER 7 - PWR PLANE		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	7	19



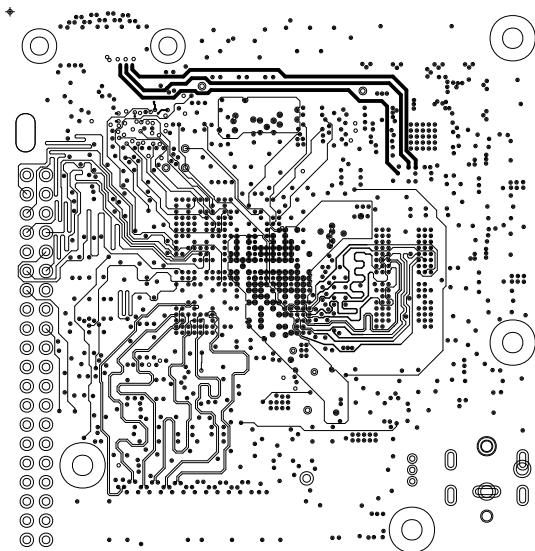
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
				LAYER 6 - PWR PLANE		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	6	19



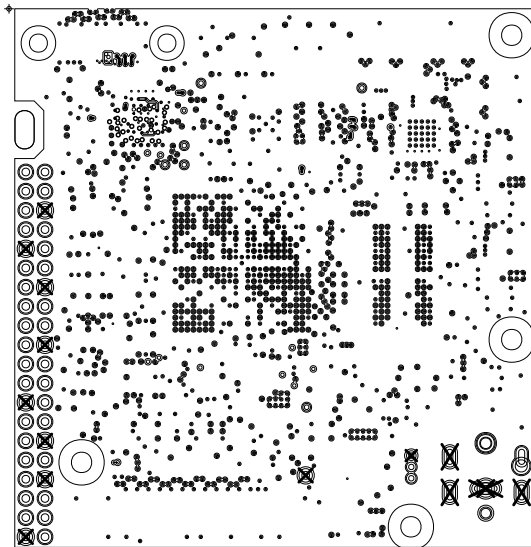
CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM			DESCRIPTION	
					LAYER 8 - GND PLANE	
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	8	19



CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
				LAYER 9 - SIGNAL		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	9	19



CUSTOMER NAME		TEXAS INSTRUMENTS			DRAWN	
BOARD NAME		DLPDLCR230NPEVM		DESCRIPTION		
				LAYER 10 - SIGNAL		
BOARD NO.	DLP038	REV	DATE	PRJ#	SH	OF
		A	29-MAY-2020	TIDL P-118506-03	10	19



CUSTOMER NAME				TEXAS INSTRUMENTS			DRAWN	
BOARD NAME			DESCRIPTION					
DLPDLCR230NPEVM			LAYER 11 - GND PLANE					
BOARD NO.		REV	DATE	PRJ#	SH	OF		
DLP038		A	29-MAY-2020	TIDL P-118506-03	11	19		

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