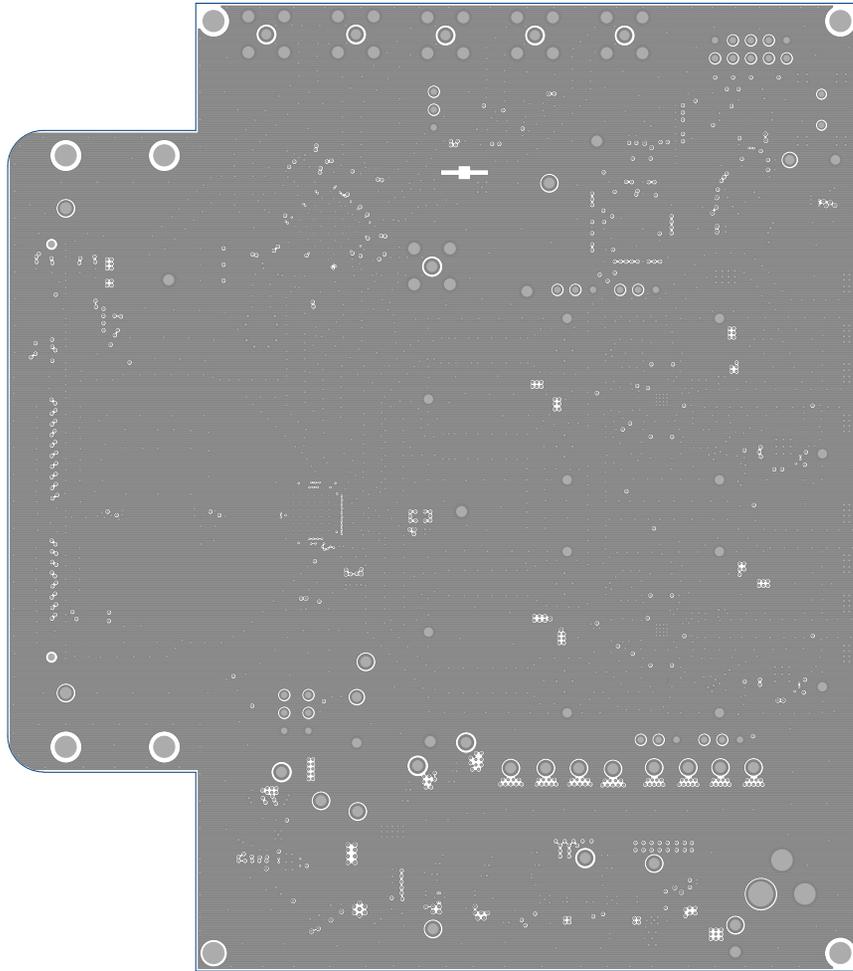
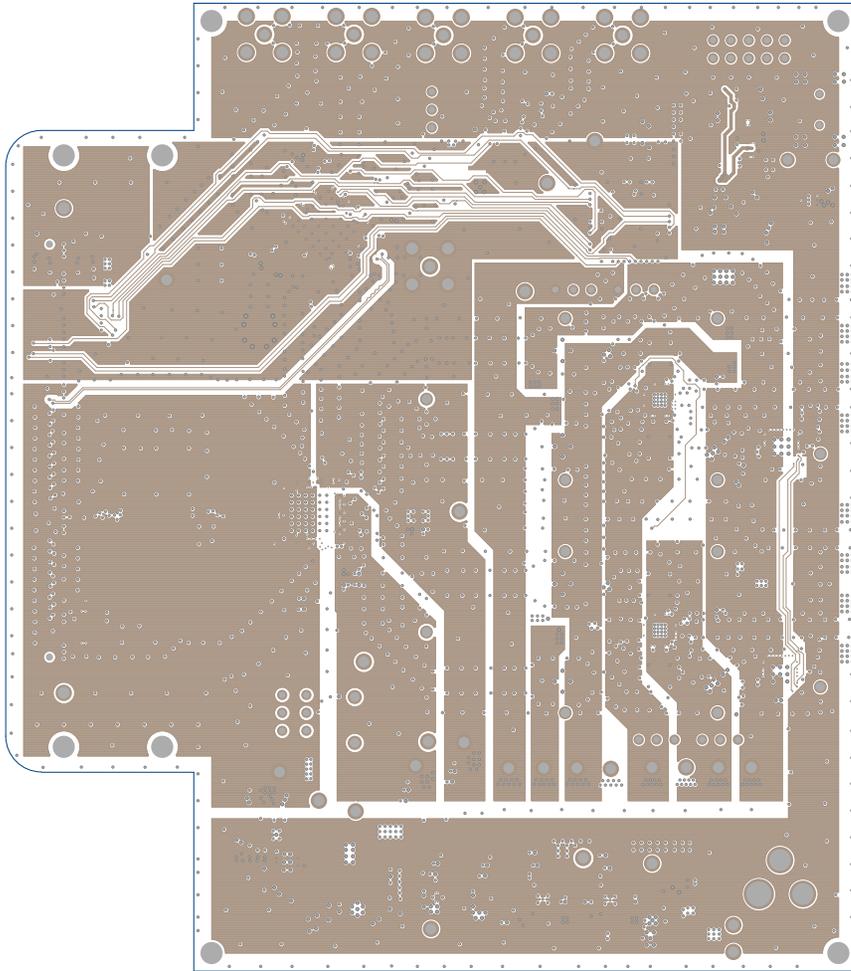


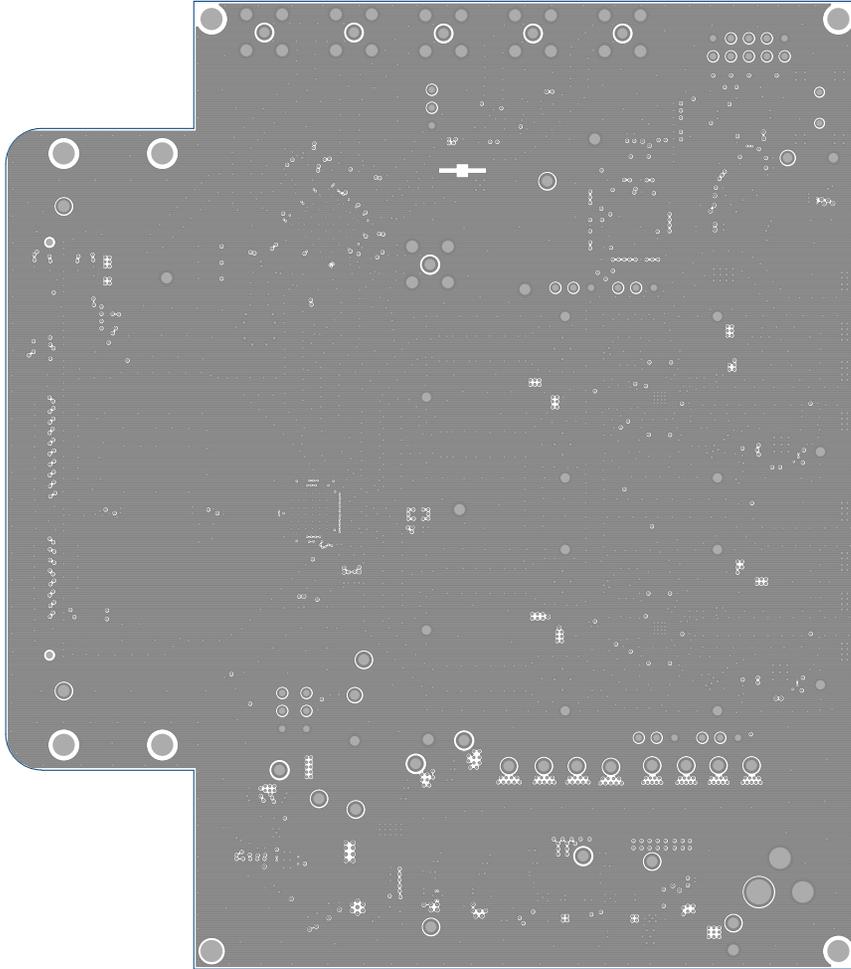
TEXAS INSTRUMENTS
 TSW3084 EVM REV D
 SAMEK SICREBENS IDOP



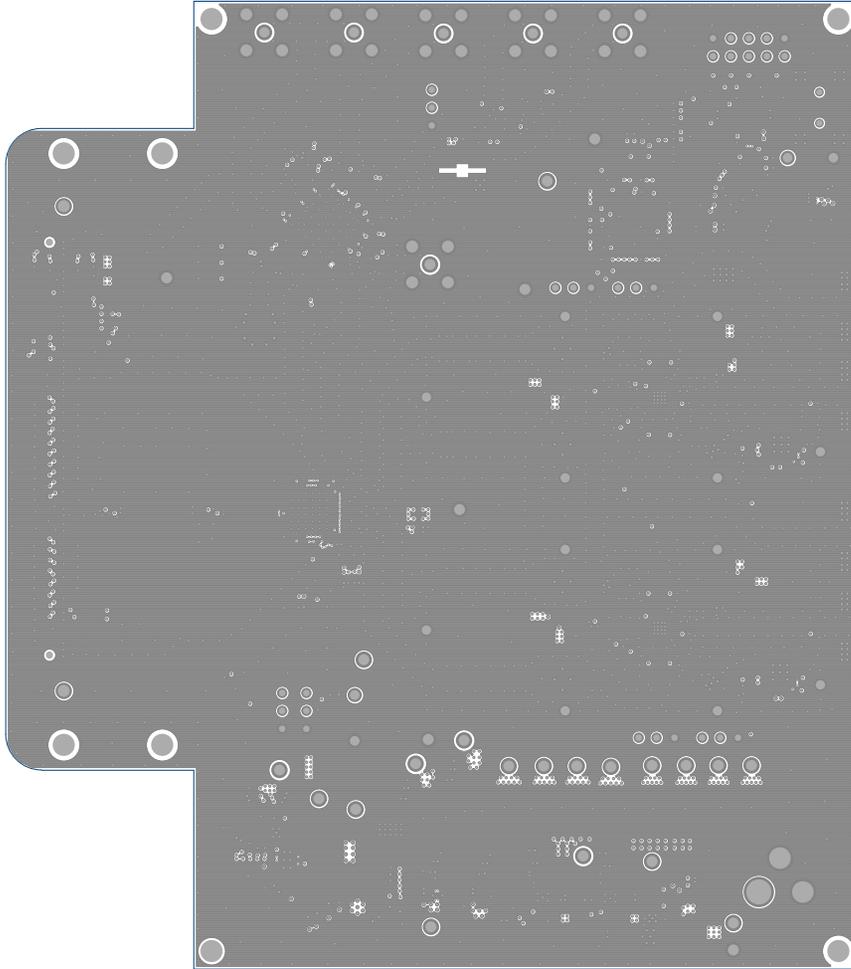
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TSW3084 EVM REV D
LAYER 2 - GND



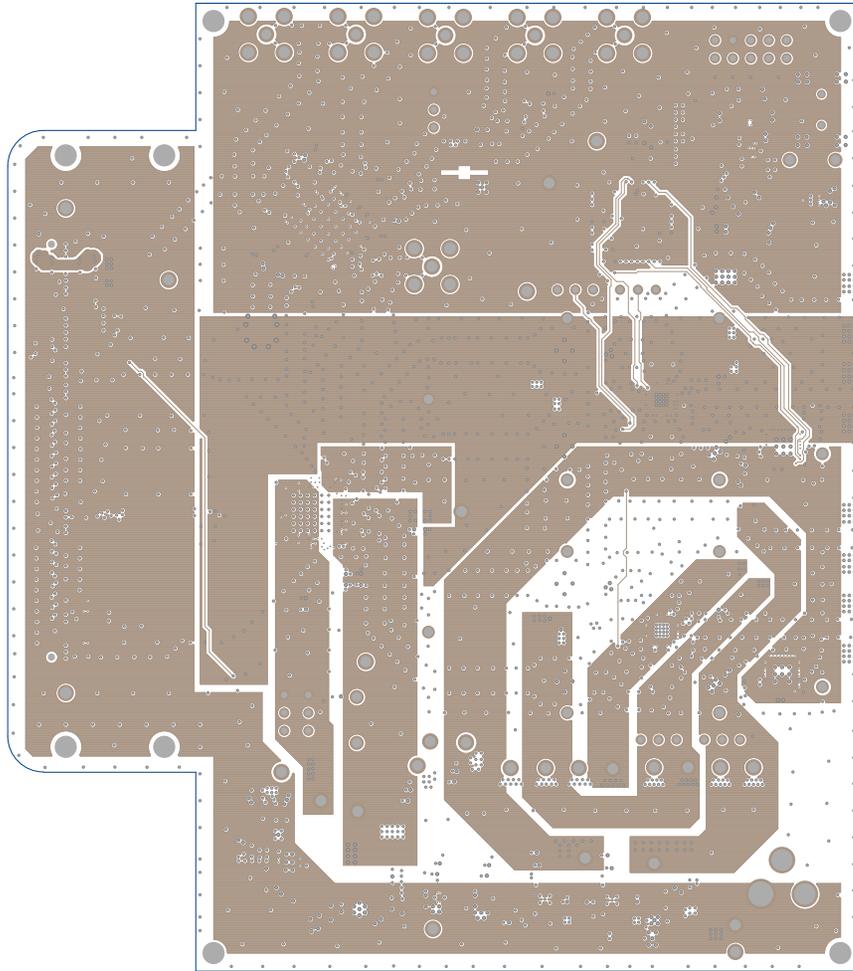
TEXAS INSTRUMENTS
TSW3084 EVM REV D
LAYER 3 - POWER



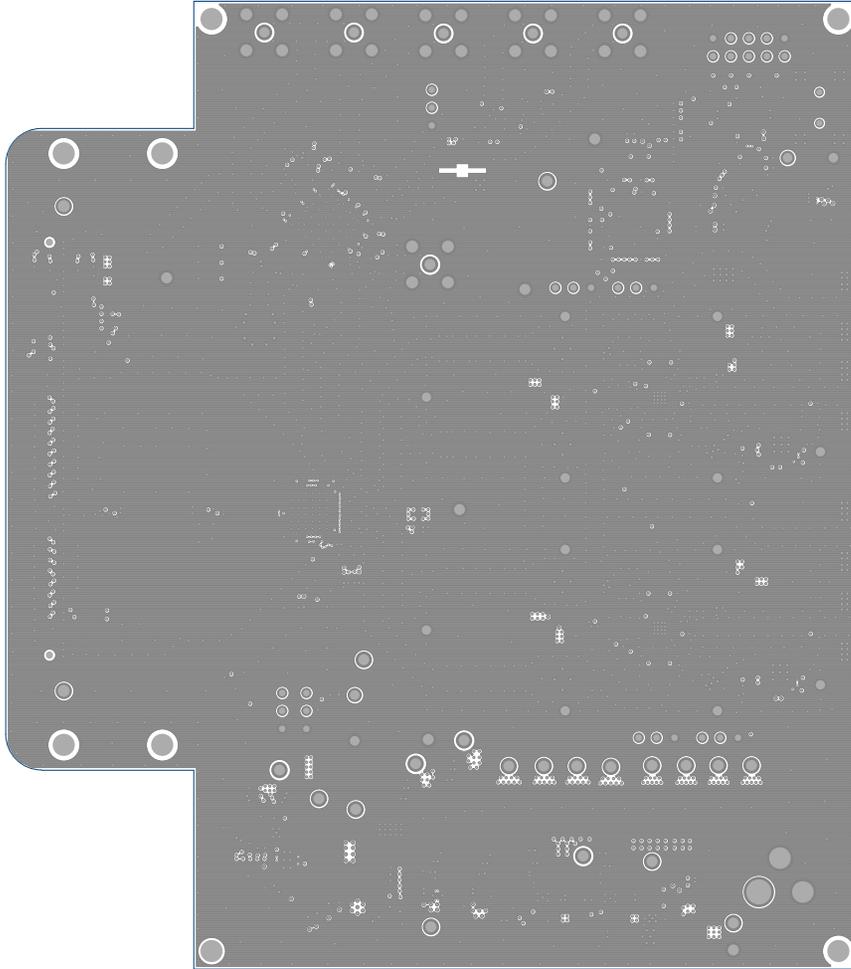
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TSW3084 EVM REV D
LAYER 4 - GND



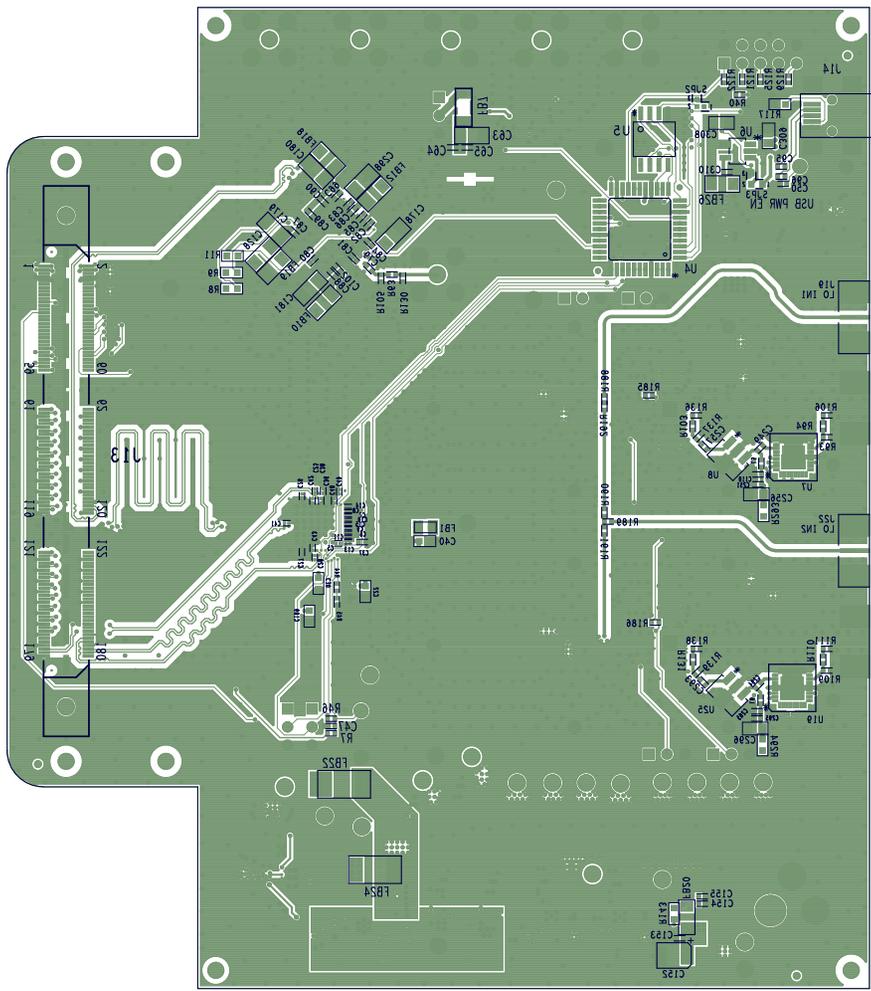
TEXAS INSTRUMENTS
TSW3084 EVM REV D
LAYER 5 - GND



TEXAS INSTRUMENTS
TSW3084 EVM REV D
LAYER 6 - POWER



TEXAS INSTRUMENTS
TSW3084 EVM REV D
LAYER 7 - GND



TEXAS INSTRUMENTS
TSW3084 EVM REV D
SILK SCREEN BOTTOM

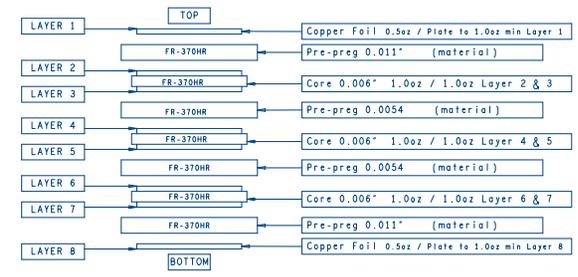
UNLESS OTHERWISE SPECIFIED, ALL NOTES ARE APPLICABLE.
 NOTES PRECEDED BY AN UNMARKED "□" ARE NOT APPLICABLE.

ZONE		LTR		REVISIONS	
		DESCRIPTION	DATE	APPROVED	

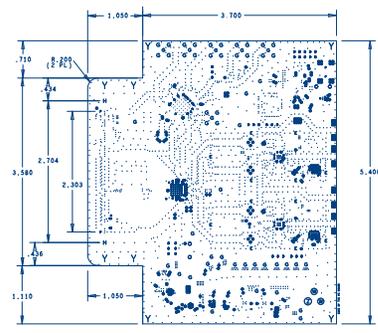
- APPLICATION DESIGN MANUFACTURING AND INSPECTION DOCUMENTS.
 IPC-2221A & IPC-2222 / DESIGN STANDARD FOR RIGID PRINTED CIRCUIT BOARDS AND RIGID PRINTED BOARD ASSEMBLIES.
 IPC-6012B / QUALIFICATION AND PERFORMANCE SPECIFICATION FOR RIGID PRINTED BOARD.
 IPC-A-600G / ACCEPTABILITY OF PRINTED BOARDS.
- HOLE SIZE APPLY AFTER PLATING. TOLERANCE TO BE +/- .003.
- REGISTRATION TOLERANCE: ARTWORK +/- .002
 ALL HOLE CENTERS +/- .005 FROM DIMENSION DATUM.
- MINIMUM COPPER WALL THICKNESS SHALL BE .001 INCH.
 FOR ALL PLATED THROUGH HOLES, BREAKOUT NOT ALLOWED.
- PROCESS AND MATERIAL MUST CONFORM TO UL 796. MATERIAL MUST MEET OR EXCEED UL FLAMMABILITY RATINGS 94V-0.
 MATERIAL: □ SINGLE SIDED, □ DOUBLE SIDED, ☒ MULTI-LAYER (SEE DETAIL 'A')
 SEE LAYER STACKUP FOR ALL PRE-PREG & CORE THICKNESSES. COPPER OZ AND MATERIAL. FINISHED BOARD THICKNESS: .062 +/- .10%
- MANUFACTURE'S UL MARKING, FLAMMABILITY RATING, LOGO AND DATE CODE TO BE PLACED IN SILKSCREEN ON BOTTOM SIDE OF THE BOARD.
- SOLDERMASK BOTH SIDES USING TAIYO (OR EQUIVALENT).
 COLOR: RED (0.001 TO 0.002" THICK OVER METAL).
- SILKSCREEN □ TOP SIDE, ☒ BOTH SIDES, USING □ YELLOW □ WHITE NP1 LEADFREE.
 REGISTRATION TOLERANCE TO BE +/- .005. INK IS NOT ALLOWED ON EXPOSED PLATED AREA.
- P. C. BOARD TO BE FREE OF DIRT, OIL, FINGER PRINTS, ETC.
- BOARD WARPAGE - WARP AND TWIST SHALL NOT EXCEED .007 INCH PER INCH.
 MEASURED AT ANY LOCATION OR DIRECTION ON THE BOARD.
- BOARD MUST BE 100% ELECTRICALLY TESTED TO ENSURE NO SHORTS OR OPEN CIRCUITS AT 20V.
- ALL INNER LAYER UNCONNECTED PADS SHALL BE REMOVED.

- ALL OUTER LAYERS USING A 19.5 mil TRACE WIDTH SHALL BE 50ohms SINGLE ENDED, +/- 10% TOLERANCE.
 ALL OUTER LAYERS USING A N/A mil TRACE WIDTH SHALL BE 100ohms SINGLE ENDED, +/- 10% TOLERANCE.
- ALL OUTER LAYERS USING A 7.5 mil TRACE WIDTH AND 6.0 mil SPACING SHALL BE 100 ohms DIFFERENTIAL, +/- 10% TOLERANCE.
 ALL INNER LAYERS USING A 4.0 mil TRACE WIDTH AND 6.5 mil SPACING SHALL BE 100 ohms DIFFERENTIAL, +/- 10% TOLERANCE.
- MINIMUM COPPER CONDUCTOR WIDTH IS: 5MIL.
 MINIMUM COPPER SPACING IS: 4.5MIL.
- SMOBC/IMMERSION GOLD: 3-8 uIN OVER 100-200 uIN NICKEL PLATING.
- GROUND ETCH ON ALL LAYERS TO BOARD EDGE IS INTENTIONAL. DO NOT PULL BACK.
- NO CHANGES TO ANY ARTWORK ARE PERMITTED WITHOUT WRITTEN AUTHORIZATION.
- HOLES SIZE APPLIES AFTER PLATING. TOLERANCE TO BE +/- .003/- .010.
- FILL ALL VIAS WITH NON CONDUCTIVE MATERIAL.
- FINISHED BOARDS MUST BE ROHS COMPLIANT AND SURVIVE A LEAD FREE ASSEMBLY, MAXIMUM REFLOW TEMPERATURE OF 260 DEGREE C (6 PASSES).

DETAIL "A"



DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
18	6.0	PLATED	172
18	8.0	PLATED	40
18	8.0	PLATED	36
18	10.0	PLATED	2184
*	12.0	PLATED	96
*	12.0	PLATED	219
*	13.0	PLATED	17
*	15.0	PLATED	8
*	38.0	PLATED	31
o	53.0	PLATED	12
o	55.0	PLATED	4
o	59.0	PLATED	5
o	62.0	PLATED	26
o	67.0	PLATED	24
h	68.0	PLATED	2
⊙	120.0	PLATED	2
⊙	140.0	PLATED	1
*	35.0	NON-PLATED	2
*	40.0	NON-PLATED	2
Y	125.0	NON-PLATED	8



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE: FRACTIONS DECIMALS ANGLES +/- .XX +/- .01 +/- .XXX +/- .005 +/-	CONTRACT NO.		TEXAS INSTRUMENTS INC.	
	APPROVALS	DATE	FABRICATION DRAWING	
MATERIAL	DRAWN L. NGUYEN	08-22-12	TSW3084EVM	
SEE NOTE 5	ENGR K. HSEA		SIZE B	CODE IDENT NO. DRAWING NO.
FINISH	SEE NOTES 7, 8, 9		SCALE NONE	REV. D
DO NOT SCALE DRAWING				SHEET 1 OF 1