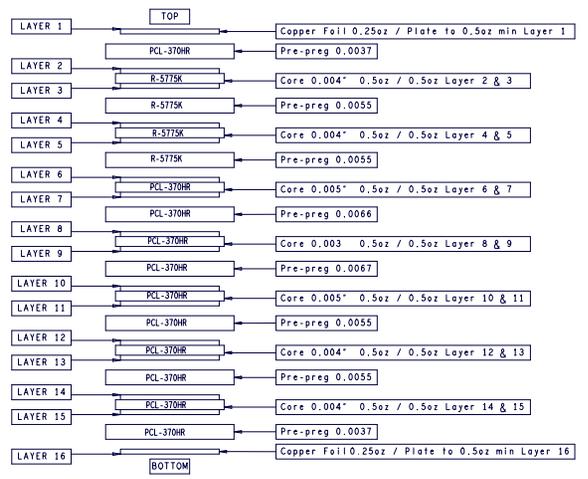


- UNLESS OTHERWISE SPECIFIED, ALL NOTES ARE APPLICABLE. NOTES PRECEDED BY AN UNMARKED "□" ARE NOT APPLICABLE.
- APPLICATION DESIGN MANUFACTURING AND INSPECTION DOCUMENTS. IPC-2221A & IPC-2222 / DESIGN STANDARD FOR RIGID PRINTED CIRCUIT BOARDS AND RIGID PRINTED BOARD ASSEMBLIES. IPC-6012B / QUALIFICATION AND PERFORMANCE SPECIFICATION FOR RIGID PRINTED BOARD. IPC-A-600G / ACCEPTABILITY OF PRINTED BOARDS.
 - HOLE SIZE APPLIES 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 RATING 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: 0.085 +/- .010
 - 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 NPI 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.

- OUTER LAYERS USING A 5.7 mil TRACE WIDTH SHALL BE 50ohms SINGLE ENDED. +/- 10% TOLERANCE. INNER LAYERS 3, 5, & 7 USING A 4.7 mil TRACE WIDTH SHALL BE 50ohms SINGLE ENDED. +/- 10% TOLERANCE. INNER LAYERS 12, 14 USING A 4.2 mil TRACE WIDTH SHALL BE 50ohms SINGLE ENDED. +/- 10% TOLERANCE.
- OUTER LAYERS USING A 4.0 mil TRACE WIDTH AND 6.0 mil SPACING SHALL BE 100 ohms DIFFERENTIAL. +/- 10% TOLERANCE. INNER LAYERS 3, 5, 7 USING A 4.0 mil TRACE WIDTH AND 6.0 mil SPACING SHALL BE 100 ohms DIFFERENTIAL. +/- 10% TOLERANCE. INNER LAYERS 12, 14 USING A 3.6 mil TRACE WIDTH AND 6.4 mil SPACING SHALL BE 100 ohms DIFFERENTIAL. +/- 10% TOLERANCE.
- MINIMUM COPPER CONDUCTOR WIDTH IS: 3.5 MIL. MINIMUM COPPER SPACING IS: 4 MIL.
- SMOBC/IMMERSION GOLD: 3-8 uIN OVER 100-200 uIN NICKEL PLATING.
- GROUND ETCH TO BOARD EDGE IS INTENTIONAL. DO NOT PULL BACK.
- NO CHANGES TO ANY ARTWORK ARE PERMITTED WITHOUT WRITTEN AUTHORIZATION.
- FINISHED BOARD MUST BE RoHS COMPLIANT AND SURVIVE A LEAD FREE ASSEMBLY. MAXIMUM REFLOW OF 260 DEGREES C (6 PASSES).
- FILL ALL VIAS USING NON CONDUCTIVE MATERIAL.

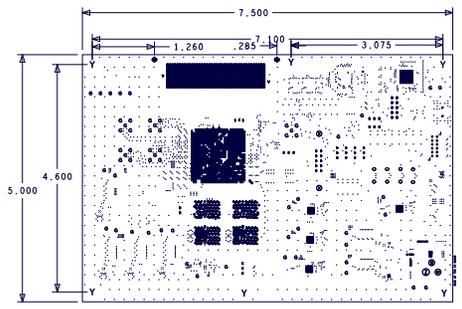
ZONE		REVISIONS	
LTR	DESCRIPTION	DATE	APPROVED

DETAIL "A"



DRILL CHART: TOP to BOTTOM
ALL UNITS ARE IN MILS

FIGURE	SIZE	PLATED	QTY
*	6.0	PLATED	54
*	8.0	PLATED	1074
*	8.0	PLATED	67
*	10.0	PLATED	400
*	10.0	PLATED	24
*	10.0	PLATED	1840
*	12.0	PLATED	112
*	12.008	PLATED	100
*	32.0	PLATED	12
*	35.0	PLATED	10
*	38.0	PLATED	33
*	40.0	PLATED	3
*	50.0	PLATED	2
*	55.0	PLATED	8
*	62.0	PLATED	40
*	67.0	PLATED	20
*	106.0	PLATED	2
⊙	120.0	PLATED	2
⊙	140.0	PLATED	1
*	35.0	NON-PLATED	2
v	50.0	NON-PLATED	2
⊙	110.0	NON-PLATED	2
Y	125.0	NON-PLATED	6



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES FRACTIONS DECIMALS ANGLES +/- .XXX +/- .005 +/-	CONTRACT NO.		TEXAS INSTRUMENTS INC.	
	APPROVALS	DATE	FABRICATION DRAWING	
	DRAWN L. MOYER	06-20-2013	TSW14J56EVM	
MATERIAL	ENGR C. DROBENICZ, SETON	SEE NOTE 5	SIZE	CODE IDENT NO. DRAWING NO.
FINISH	SEE NOTES 7, 8, 9		B	
DO NOT SCALE DRAWING	3		SCALE	NONE
				SHEET 1 OF 1