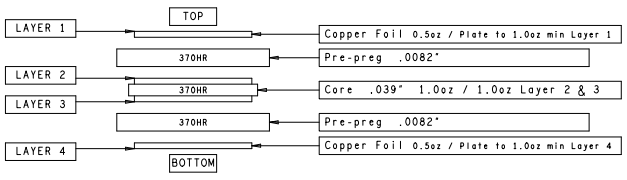
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

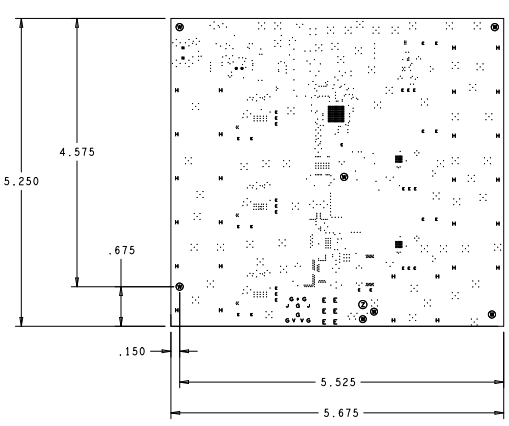
NOTES: UNLESS OTHERWISE SPECIFIED.

1. 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.
2. HOLE SIZE APPLY AFTER PLATING. TOLERANCE TO BE +/-.003.
3. REGISTRATION TOLERANCE: ARTWORK +/-.002
   ALL HOLE CENTERS +/-.005 FROM DIMENSION DATUM.
4. MINIMUM COPPER WALL THICKNESS SHALL BE .001 INCH.
   FOR ALL PLATED THROUGH HOLES. BREAKOUT NOT ALLOWED.
5. PROCESS AND MATERIAL MUST CONFORM TO UL 796. MATERIAL MUST MEET OR EXCEED UL FLAMMABILITY RATING 94V-0.
   MATERIAL: MULTI-LAYER (SEE DETAIL "A")
   FINISHED BOARD THICKNESS: .062 +/-10%
6. MANUFACTURE'S UL MARKING, FLAMMABLILITY RATING, LOGO AND DATE CODE TO BE PLACED IN SILKSCREEN ON TOP SIDE OF THE BOARD.
7. SOLDERMASK BOTH SIDES USING TAIYO (OR EQUIVALENT).
   COLOR=RED (0.001 TO 0.002" THICK OVER METAL).
8. SILKSCREEN TOP SIDE USING WHITE NPI LEADFREE.
   REGISTRATION TOLERANCE TO BE +/-.005. INK IS NOT ALLOWED ON EXPOSED PLATED AREA.
9. P.C. BOARD TO BE FREE OF DIRT, OIL, FINGER PRINTS, ETC.
10. BOARD WARPAGE: WARP AND TWIST SHALL NOT EXCEED .007 INCH PER INCH.
    MEASURED AT ANY LOCATION OR DIRECTION ON THE BOARD.
11. BOARD MUST BE 100% ELECTRICALLY TESTED TO ENSURE NO SHORTS OR OPEN CIRCUITS AT 20V.
12. ALL INNER LAYER UNCONNECTED PADS SHALL BE REMOVED.
13. MINIMUM COPPER CONDUCTOR WIDTH IS: 10MIL.
    MINIMUM COPPER SPACING IS: 5MIL.
14. SMOBC/IMMERSION GOLD: 3-8 uIN OVER 100-200 uIN NICKEL PLATING.
15. HOLE SIZE APPLIES AFTER PLATING. TOLERANCE TO BE +.003/-.010.

DETAIL "A"



DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
·	10.0	PLATED	982 15
▪	12.0	PLATED	67
▪	28.0	PLATED	1
▪	38.0	PLATED	2
⁞	40.0	PLATED	33
J	50.0	PLATED	2
H	59.0	PLATED	28
G	60.0	PLATED	6
E	73.0	PLATED	6
Ⓜ	120.0	PLATED	2
Ⓝ	125.0	PLATED	5
Ⓩ	140.0	PLATED	1
▪	39.0	NON-PLATED	2
▿	50.0	NON-PLATED	2



UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS +/- DECIMALS .XX +/-.01 .XXX +/-.005 ANGLES +/-	CONTRACT NO.	TEXAS INSTRUMENTS INC.
	APPROVALS / DATE: DRAWN JV SMITH 08-22-12; ENGR R TREISCH 08-22-12	FABRICATION DRAWING TSW2200
MATERIAL: SEE NOTE 5		
FINISH: SEE NOTES 7, 8, 9		SIZE B; CODE IDENT NO.; DRAWING NO.; REV. F
DO NOT SCALE DRAWING		SCALE NONE; SHEET 1 OF 1