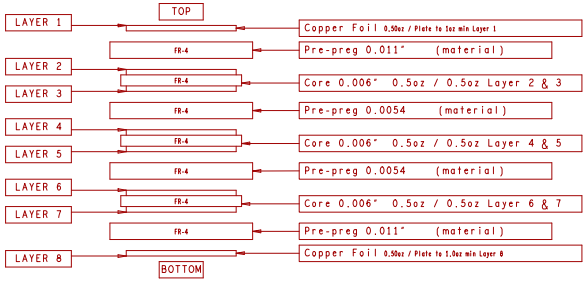
REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

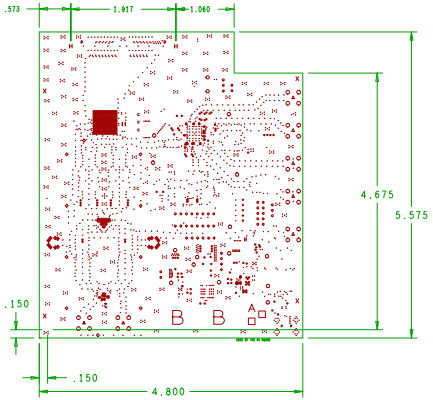
UNLESS OTHERWISE SPECIFIED. ALL NOTES ARE APPLICABLE.
NOTES PRECEDED BY AN UNMARKED "☐" ARE NOT APPLICABLE.

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: ☐ SINGLE SIDED, ☐ DOUBLE SIDED, ☒ MULTI-LAYER 370HR(SEE DETAIL "A")
   SEE LAYER STACKUP FOR ALL PRE-PREG & CORE THICKNESSES, COPPER OZ AND MATERIAL. FINISHED BOARD THICKNESS: 0.062 +/-10%
6. MANUFACTURE'S UL MARKING, FLAMMABLILITY RATING, LOGO AND DATE CODE TO BE PLACED IN SILKSCREEN ON BOTTOM 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 ☒ BOTH SIDES, USING ☐ YELLOW ☒ 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. ☒ ALL OUTER LAYER USING A 19.5mil TRACE WIDTH SHALL BE 50ohms SINGLE ENDED, +/-10% TOLERANCE.
    ☐ BOTTOM LAYER USING A XX.Xmil TRACE WIDTH SHALL BE 50ohms SINGLE ENDED, +/-10% TOLERANCE.

    ☒ ALL OUTER LAYERS USING A 8.5mil TRACE WIDTH AND 6.5mil SPACING SHALL BE 100 ohms DIFFERENTIAL, +/-10% TOLERANCE.
    ☒ ALL INNER LAYERS USING A 4.0mil TRACE WIDTH AND 6.5 mil SPACING SHALL BE 100 ohms DIFFERENTIAL, +/- 5% TOLERANCE.
14. MINIMUM COPPER TRACE WIDTH IS: 3.75MIL.
    MINIMUM COPPER SPACING IS: 4.5MIL.
15. ☒ SMOBC/IMMERSION GOLD: 3-8 uIN OVER 100-200 uIN NICKEL PLATING.
16. ALL THRU HOLE VIAS TO BE PLATED AND FILLED WITH NON-CONDUCTIVE EPOXY. FILLED VIAS SHALL BE PLATED AFTER FILLING AND COPLANOR.
17. GROUND ETCH ON ALL LAYERS TO BOARD EDGE IS INTENTIONAL. DO NOT PULL BACK.
18. NO CHANGES TO ANY ARTWORK ARE PERMITTED WITHOUT WRITTEN AUTHORIZATION.

DETAIL "A"





DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
•	6.0	PLATED	263
·	8.0	PLATED	7
·	10.0	PLATED	1849
·	10.0	PLATED	33
◆	13.0	PLATED	9
◆	15.0	PLATED	16
•	20.0	PLATED	116
•	38.0	PLATED	3
•	38.0	PLATED	46
◆	53.0	PLATED	10
o	55.0	PLATED	2
▲	59.0	PLATED	7
o	62.0	PLATED	14
o	67.0	PLATED	28
H	68.0	PLATED	2
□	120.0	PLATED	2
A	140.0	PLATED	1
B	250.0	PLATED	2
•	35.0	NON-PLATED	2
•	40.0	NON-PLATED	2
x	125.0	NON-PLATED	4

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ARE:
FRACTIONS +/- DECIMALS .XX +/-.01 .XXX +/-.005 ANGLES +/-

MATERIAL
SEE NOTE 5

FINISH
SEE NOTES 7, 8, 9

DO NOT SCALE DRAWING

CONTRACT NO.

APPROVALS		DATE
DRAWN	L. NGUYEN	05-14-12
ENGR	R. PRENTICE	11-21-11

TEXAS INSTRUMENTS INC.

FABRICATION DRAWING
TSW1266

SIZE	CODE IDENT NO.	DRAWING NO.	REV.
B			A

SCALE NONE SHEET 1 OF 1