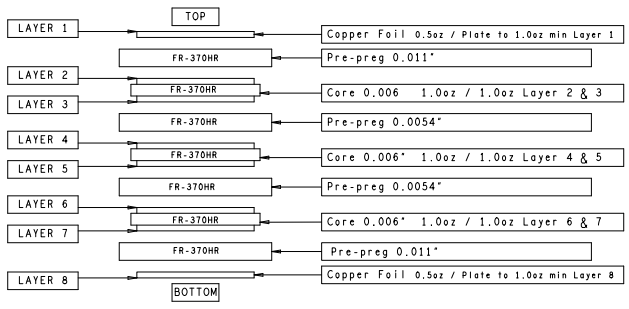
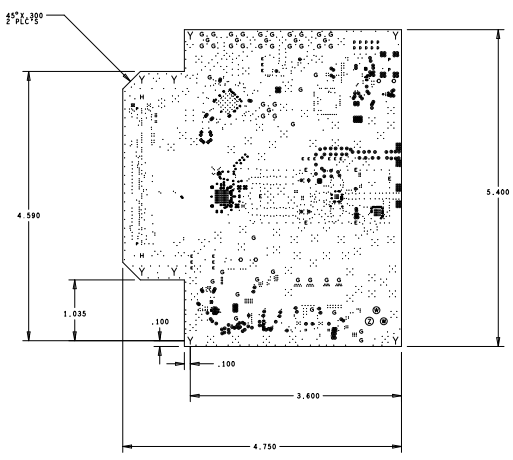
UNLESS OTHERWISE SPECIFIED, ALL NOTES ARE APPLICABLE.

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: MULTILAYER 370HR (SEE DETAIL "A")
   SEE LAYER STACKUP FOR ALL PRE-PREG & CORE THICKNESSES, COPPER OZ AND MATERIAL. FINISHED BOARD THICKNESS: .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 BOTH SIDES 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. ALL OUTER LAYERS USING A 12 MIL TRACE WIDTH SHALL BE 50 OHMS SINGLE ENDED, +/- 10% TOLERANCE.
    ALL OUTER LAYERS USING A 6 MIL TRACE WIDTH AND 5 MIL SPACING SHALL BE 100 OHMS DIFFERENTIAL, +/- 10% TOLERANCE.
14. MINIMUM COPPER CONDUCTOR WIDTH IS: 5 MIL.
    MINIMUM COPPER SPACING IS: 4.5 MIL.
15. SMOBC/IMMERSION GOLD: 3-8 uIN OVER 100-200 uIN NICKEL PLATING.
16. NO CHANGES TO ANY ARTWORK ARE PERMITTED WITHOUT WRITTEN AUTHORIZATION.
17. FILL 6 MIL, 8 MIL, 10 MIL AND 12 MIL VIAS WITH NON CONDUCTIVE EPOXY.
18. FINISHED BOARDS MUST BE RoHS COMPLIANT AND SURVIVE A LEAD FREE ASSEMBLY, MAXIMUM REFLOW TEMPERATURE OF 260 DEGREE C (6 PASSES).

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

DETAIL "A"





DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
•	6.0	PLATED	42
·	8.0	PLATED	39
•	8.0	PLATED	151
·	10.0	PLATED	1604
•	12.0	PLATED	93
•	12.0	PLATED	221
◆	15.0	PLATED	8
◆	38.0	PLATED	10
◆	40.0	PLATED	15
◆	53.0	PLATED	6
○	55.0	PLATED	4
G	59.0	PLATED	5
G	62.0	PLATED	20
G	67.0	PLATED	24
H	68.0	PLATED	2
Ⓜ	120.0	PLATED	2
Ⓩ	140.0	PLATED	1
▸	40.0	NON-PLATED	2
▸	45.0	NON-PLATED	2
Y	125.0	NON-PLATED	8

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 J. SMITH	01-05-12
ENGR J. SETON	01-05-12

TEXAS INSTRUMENTS INC.

FABRICATION DRAWING
TSW3085 EVM

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

SCALE NONE SHEET 1 OF 1