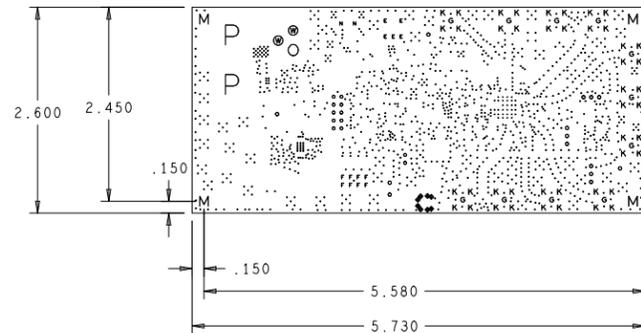
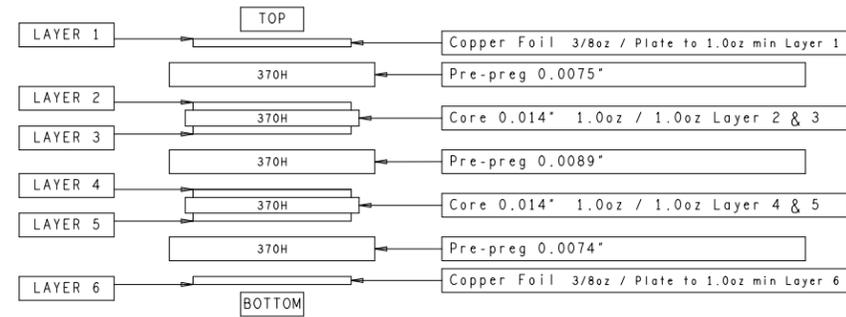


UNLESS OTHERWISE SPECIFIED, ALL NOTES ARE APPLICABLE.

- 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 APPLY AFTER PLATING. TOLERANCE $\pm .003$ / -NOMINAL NUMBER AND PROCEED TO IPC 6012 CLASS 2.
- REGISTRATION TOLERANCE: ARTWORK $\pm .002$
ALL HOLE CENTERS $\pm .005$ 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: MULTI-LAYER (SEE DETAIL 'A')
SEE LAYER STACKUP FOR ALL PRE-PREG & CORE THICKNESSES, COPPER OZ AND MATERIAL. FINISHED BOARD THICKNESS: 0.062 \pm 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 BOTH SIDES, USING WHITE NPI LEADFREE. REGISTRATION TOLERANCE TO BE $\pm .005$. 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 12 MIL TRACE WIDTH SHALL BE 50 OHMS SINGLE ENDED, \pm 10% TOLERANCE. ALL INNER & OUTER LAYERS USING A 6 MIL TRACE WIDTH AND 6 MIL SPACING SHALL BE 100 OHMS DIFFERENTIAL, \pm 10% TOLERANCE. INNER LAYER 4 USING A 8.7 MIL TRACE WIDTH SHALL BE 50 OHMS SINGLE ENDED, \pm 10% TOLERANCE.
- MINIMUM COPPER CONDUCTOR WIDTH IS: 4 MILS. MINIMUM COPPER SPACING IS: 4 MILS.
- SMOBC/IMMERSION GOLD: 3-8 μ IN OVER 100-200 μ IN NICKEL PLATING.
- ALL 8 MIL, 10MIL & 12MIL HOLES/VIAS TO BE PLATED AND FILLED WITH NON-CONDUCTIVE EPOXY. FILLED VIAS SHALL BE PLATED AFTER FILLING AND COPLANAR.
- VENDOR MAY ADD GANG MASK WHERE SOLDER MASK WEB IS LESS THAN .001.
- PWB MUST BE ROHS COMPLIANT AND SURVIVE LEAD FREE ASSEMBLY. MAX REFLOW OF 260 DEGREES C (6 PASSES).

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED



DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
.	8.0	+0.0/-0.0	PLATED	38
.	10.0	+0.0/-0.0	PLATED	1390
.	12.0	+0.0/-0.0	PLATED	1
•	15.0	+0.0/-0.0	PLATED	8
•	38.0	+0.0/-0.0	PLATED	12
•	40.0	+0.0/-0.0	PLATED	14
•	43.0	+0.0/-0.0	PLATED	5
•	46.0	+0.0/-0.0	PLATED	8
•	59.0	+0.0/-0.0	PLATED	11
•	67.0	+0.0/-0.0	PLATED	44
⊙	120.0	+3.0/-3.0	PLATED	2
M	125.0	+0.0/-0.0	PLATED	4
O	140.0	+0.0/-0.0	PLATED	1
P	250.0	+0.0/-0.0	PLATED	2
•	39.0	+0.0/-0.0	NON-PLATED	2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES \pm .XX \pm .01 \pm .005 \pm .XXX \pm .005 \pm .005	CONTRACT NO.		TEXAS INSTRUMENTS INC.	
	APPROVALS	DATE	FABRICATION DRAWING TSW4806 EVM	
	DRAWN JV SMITH	11-01-11		
MATERIAL	ENGR JIM SETON	11-01-11	SIZE CODE IDENT NO. DRAWING NO. REV.	
FINISH			B	A
DO NOT SCALE DRAWING	SCALE NONE		SHEET 1 OF 1	