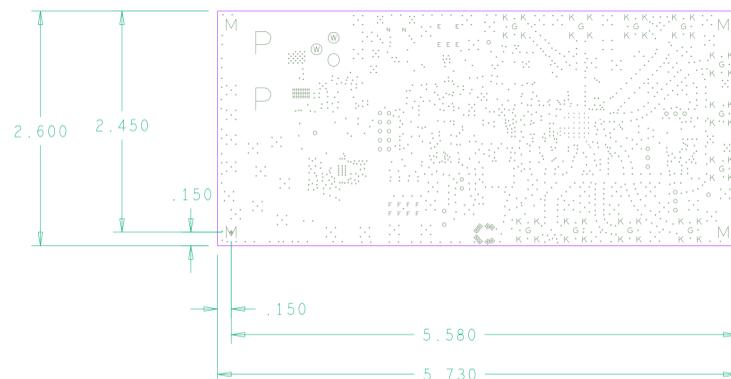
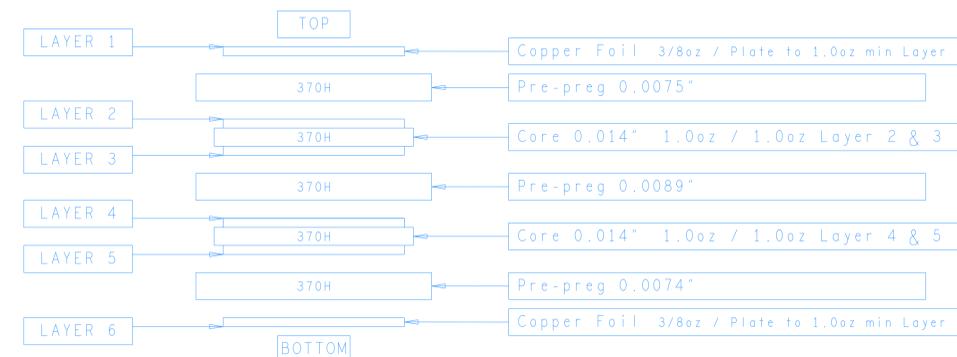


UNLESS OTHERWISE SPECIFIED, ALL NOTES ARE APPLICABLE.

- 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-6006 / 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: $3-8 \mu\text{IN}$ OVER $100-200 \mu\text{IN}$ NICKEL PLATING.
- ALL 8 MIL, 10 MIL & 12 MIL 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	1380
*	12.0	+0.0/-0.0	PLATED	15
.	12.0	+0.0/-0.0	PLATED	1
*	15.0	+0.0/-0.0	PLATED	8
o	38.0	+0.0/-0.0	PLATED	12
o	40.0	+0.0/-0.0	PLATED	14
e	43.0	+0.0/-0.0	PLATED	5
r	46.0	+0.0/-0.0	PLATED	8
o	59.0	+0.0/-0.0	PLATED	11
k	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 +/- .XX +/- .01 +/- .XXX +/- .005 +/-	CONTRACT NO.		TEXAS INSTRUMENTS INC.	
	APPROVALS	DATE	FABRICATION DRAWING TSW4806 EVM	
MATERIAL	DRAWN JV SMITH	11-01-11		
FINISH	ENGR JIM SETON	11-01-11	SIZE	CODE IDENT NO.
DO NOT SCALE DRAWING			B	DRAWING NO.
		SCALE NONE		REV. B
				SHEET 1 OF 1