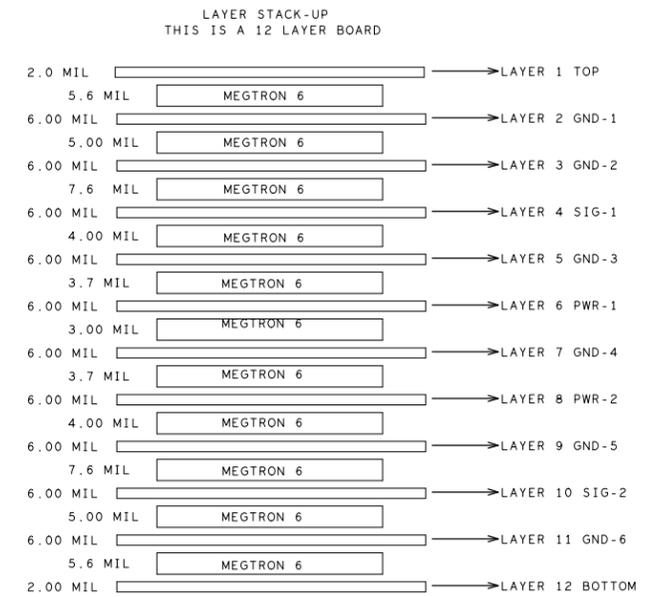


UNLESS OTHERWISE SPECIFIED, ALL NOTES ARE APPLICABLE.

- APPLICATION DESIGN, MANUFACTURING AND INSPECTION DOCUMENTS. IPC-2221A & IPC-2222 / DESIGN STANDARD FOR RIGID PRINTED CIRCUIT BOARDS AND RIGID PRINTED BOARD ASSEMBLIES. IPC-6012 / QUALIFICATION AND PERFORMANCE SPECIFICATION FOR RIGID PRINTED BOARD, CLASS 2, CURRENT REVISION. IPC-A-600 / ACCEPTABILITY OF PRINTED BOARDS, CLASS 2, CURRENT REVISION.
- VIA SIZE APPLY AFTER PLATING. TOLERANCE TO BE $\pm .003/- .010$. HOLE SIZE APPLY AFTER PLATING. TOLERANCE TO BE $\pm /-.003$.
- 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: $.062 \pm /- 10\%$
- MANUFACTURE'S UL MARKING, FLAMMABILITY RATING, LOGO AND DATE CODE TO BE PLACED IN SILKSCREEN ON BOTTOM SIDE OF THE BOARD.
- SMOBC/IMMERSION GOLD: 2 - 5 μ IN OVER 118-236 μ IN NICKEL PLATING.
- SOLDERMASK BOTH SIDES USING TAIYO (OR EQUIVALENT) COLOR = RED.
- 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.

- MINIMUM COPPER CONDUCTOR WIDTH IS: 5MIL. MINIMUM COPPER CONDUCTOR SPACING IS: 4.5MIL.
- ALL INNER LAYER UNCONNECTED PADS SHALL BE REMOVED.
- PWB MUST BE ROHS COMPLIANT AND SURVIVE LEAD FREE ASSEMBLY. MAX REFLOW OF 260 DEGREES C (6 PASSES).
- ALL THROUGH VIAS TO BE PLUGGED WITH NON-CONDUCTIVE EPOXY MATERIAL. PLUGGED VIAS TO BE PLATED AFTER PLUGGING TO PRESENT FLAT SURFACE TO DEVICE. NO POTHOLES.

REVISIONS			
ZONE	LTR	DESCRIPTION	DATE



BACKDRILL SHOULD NOT DISCONNECT THE PAD IN L10_SIG-2

BACKDRILL: TOP to L10_SIG-2				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
•	8.01		PLATED	40

SEE NOTE 16

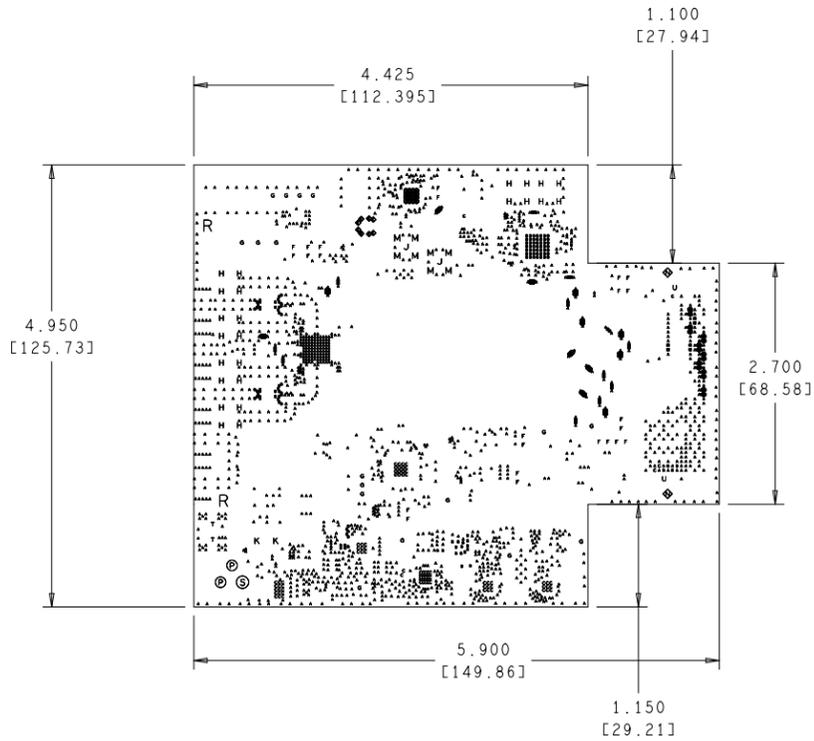
- NOTES:
- DRILL SIZES LISTED IN LEGEND ARE CONSIDERED FINISHED.
 - VENDOR IS REQUIRED TO SELECT TOOLING FOR OVERDRILLING.
 - LEGEND DOES NOT SPECIFY DEPTH INTO ADJACENT DIELECTRIC LAYER.

DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
•	8.0	$\pm 3.0 / -10.0$	PLATED	1712
•	8.0	USE 10 MIL DRILL BIT & FINISH THE HOLE TO 8 MIL	PLATED	30
•	8.01	USE 10 MIL DRILL BIT & FINISH THE HOLE TO 8 MIL	PLATED	40
•	10.0	$\pm 3.0 / -10.0$	PLATED	122
•	12.0	$\pm 3.0 / -10.0$	PLATED	98
•	13.0	$\pm 3.0 / -10.0$	PLATED	16
•	15.0	$\pm 3.0 / -10.0$	PLATED	8
r	38.0	$\pm 3.0 / -3.0$	PLATED	32
e	40.0	$\pm 3.0 / -3.0$	PLATED	17
h	59.0	$\pm 3.0 / -3.0$	PLATED	24
j	62.0	$\pm 3.0 / -3.0$	PLATED	2
k	63.0	$\pm 3.0 / -3.0$	PLATED	2
m	67.0	$\pm 3.0 / -3.0$	PLATED	8
⊕	106.0	$\pm 3.0 / -3.0$	PLATED	2
⊙	120.0	$\pm 3.0 / -3.0$	PLATED	2
R	125.0	$\pm 3.0 / -3.0$	PLATED	2
Ⓢ	140.0	$\pm 3.0 / -3.0$	PLATED	1
†	39.0	$\pm 3.0 / -3.0$	NON-PLATED	2
u	50.0	$\pm 3.0 / -3.0$	NON-PLATED	2

SEE NOTE 16
SEE NOTE 16

IMPEDANCE TABLE.

	50 OHM SINGLE ENDED		100 OHM DIFFERENTIAL TIGHTLY COUPLED			100 OHM DIFFERENTIAL LOOSELY COUPLED		
	TRACE WIDTH (MILS)	TOL (%)	TRACE WIDTH (MILS)	SPACING (MILS)	TOL (%)	TRACE WIDTH (MILS)	SPACING (MILS)	TOL (%)
L01_TOP	11	5 %	6	5	5 %	10	18	5 %
L04_SIG-1	5.5	5 %	4.9	7.1	5 %	NIL	NIL	NIL
L10_SIG-2	6.5	5 %	5.5	6.5	5 %	6.3	20.1	5 %
L12_BOTTOM	11	5 %	6	5	5 %	10	18	5 %



THIS BOARD IS FOR THE FOLLOWING DEVICES:
ADC08DJ2700, ADC08DJ3200, ADC12DJ1600, ADC12DJ2700, ADC12DJ3200

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: FRACTIONS DECIMALS ANGLES $\pm /- .XX \pm /- .01$ $\pm /- .XXX \pm /- .005 \pm /-$	CONTRACT NO.		TEXAS INSTRUMENTS INC.	
	APPROVALS	DATE	FABRICATION DRAWING	
MATERIAL SEE NOTE 5	DRAWN	JV SMITH	ADC12DJ3200EVM	
	ENG	J BRINKHURST	DRAWING NO. HSP-001	
FINISH SEE NOTE 7, 8, 9	SCALE NONE		CODE IDENT NO.	REV. A
DO NOT SCALE DRAWING	SHEET 1 OF 1			