

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

REVISIONS				
ZONE	LTR	DESCRIPTION	DATE	APPROVED

- 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 TO BE +/- .003.
- REGISTRATION TOLERANCE: ARTWORK +/- .002
 ALL HOLE CENTERS +/- .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.
 BOARD MATERIAL SHALL BE 180 Tg/340 Td ISOLA FR-370HR OR EQUIVALENT, RfHS COMPLIANT AND LEAD FREE ASSEMBLY CAPABLE. BOARD MATERIAL SHALL MEET OR EXCEED IPC-4101B. RfHS CERTIFICATE OF CONFORMANCE SHALL BE DELIVERED WITH EACH LOT.

- ALL 15.0 mil TRACES SHALL BE 50ohms SINGLE ENDED, +/- 5% TOLERANCE.
 ALL 7.0 mil TRACES WITH 6 MIL SPACING SHALL BE 100ohms DIFFERENTIAL, +/- 5% TOLERANCE.
- MINIMUM COPPER CONDUCTOR WIDTH IS: 5MIL.
 MINIMUM COPPER SPACING IS: 5MIL.
- SMOBC/IMMERSION GOLD: 3-8 uIN OVER 100-200 uIN NICKEL PLATING.
 SMOBC/HARD GOLD: 5-15 uIN OVER 100-200 uIN NICKEL PLATING.
- GROUND ETCH ON ALL LAYERS TO BOARD EDGE IS INTENTIONAL. DO NOT PULL BACK.
- NO CHANGES TO ANY ARTWORK ARE PERMITTED WITHOUT WRITTEN AUTHORIZATION.
- FILL VIA-IN-PADS WITH NON-CONDUCTIVE MATERIAL.

- MATERIAL: □ SINGLE SIDED, □ DOUBLE SIDED, □ MULTI-LAYER (SEE DETAIL "A")
 SEE LAYER STACKUP FOR ALL PRE-PREG & CORE THICKNESSES, COPPER OZ AND MATERIAL. FINISHED BOARD THICKNESS: .078 +/- 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 □ TOP SIDE, □ BOTH SIDES, USING □ YELLOW, □ WHITE NPI LEADFREE.
 REGISTRATION TOLERANCE TO BE +/- .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.

DETAIL "A"

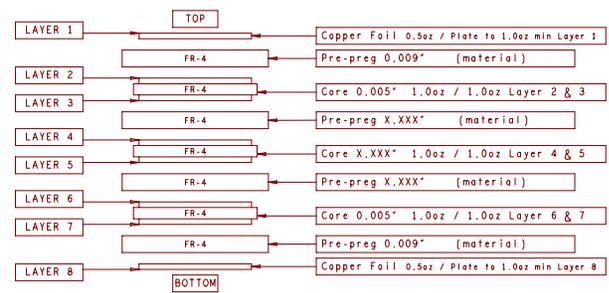
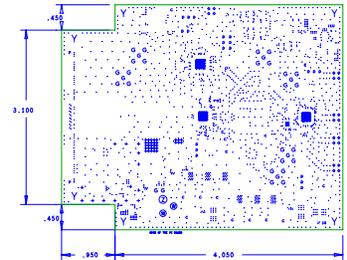


FIGURE	SIZE	PLATED	QTY
-	8.0	PLATED	29
-	10.0	PLATED	1775
+	12.0	PLATED	45
*	13.0	PLATED	48
+	38.0	PLATED	13
+	38.0	PLATED	20
+	40.0	PLATED	1
+	45.0	PLATED	20
o	62.0	PLATED	8
o	67.0	PLATED	24
⊙	120.0	PLATED	2
⊙	140.0	PLATED	1
-	18.0	NON-PLATED	2
*	40.0	NON-PLATED	2
Y	125.0	NON-PLATED	6



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 DAC328X EVM	
	DRAWN L. NGUYEN	04/06/10		
MATERIAL	ENGR R. HOPPENSTEIN	SEE NOTE 5		
FINISH	SEE NOTES 7, 8, 9		SIZE B	CODE IDENT NO. DRAWING NO.
DO NOT SCALE DRAWING			SCALE NONE	REV. E