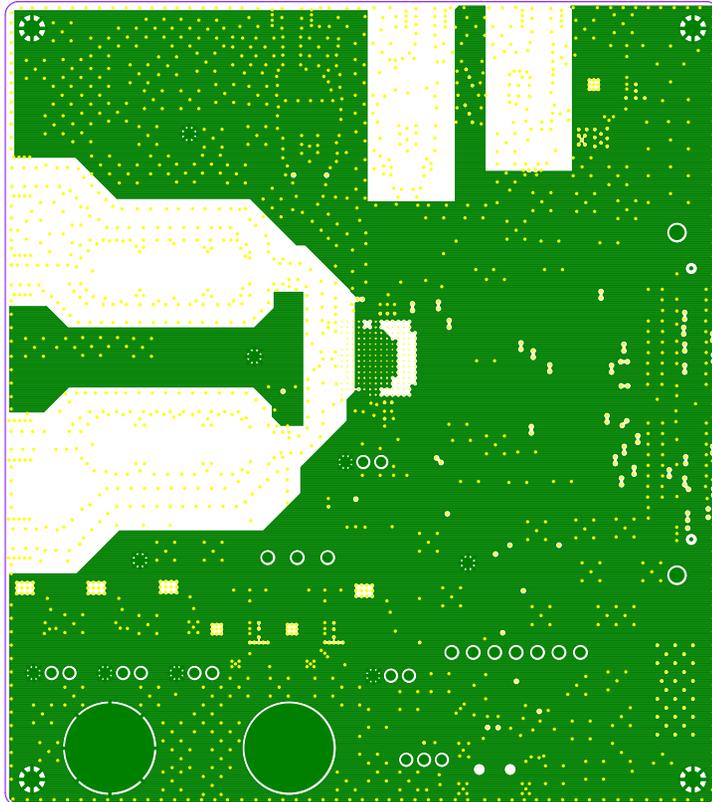


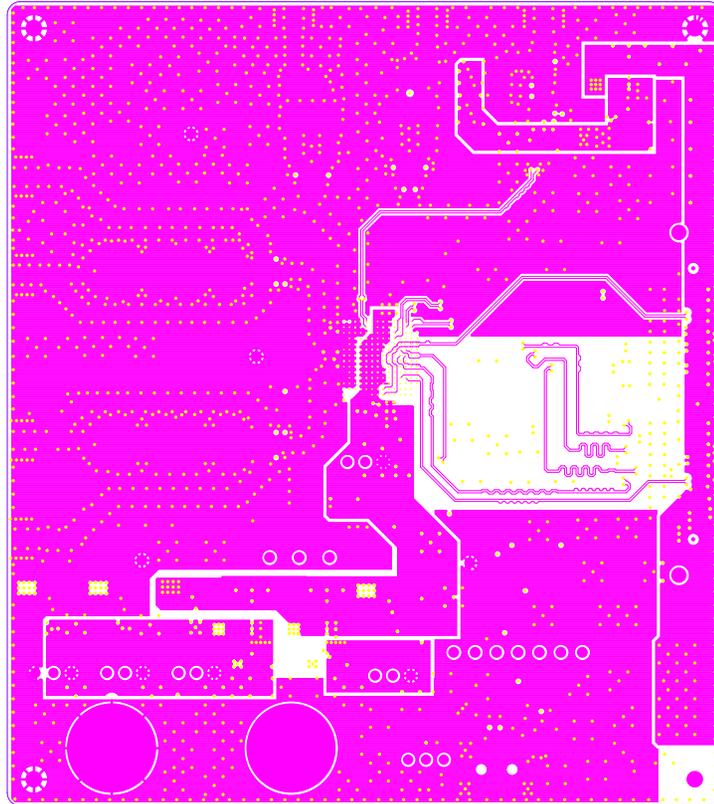
TEXAS INSTRUMENTS
 ADS5402 EVB REV A

SILKSCREEN TOP VIEW

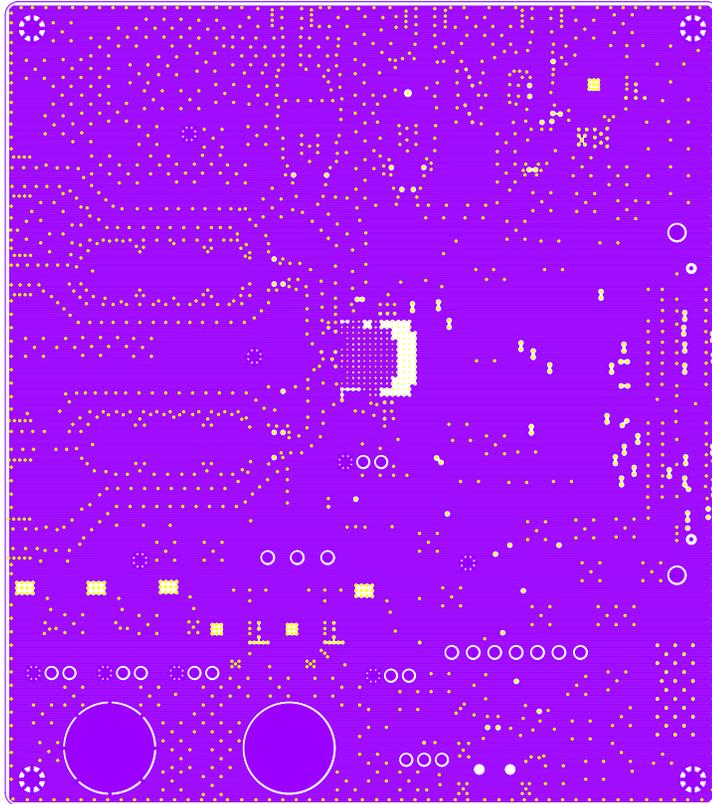


TEXAS INSTRUMENTS
ADS5402 EVM REV A

LAYER 2 GND

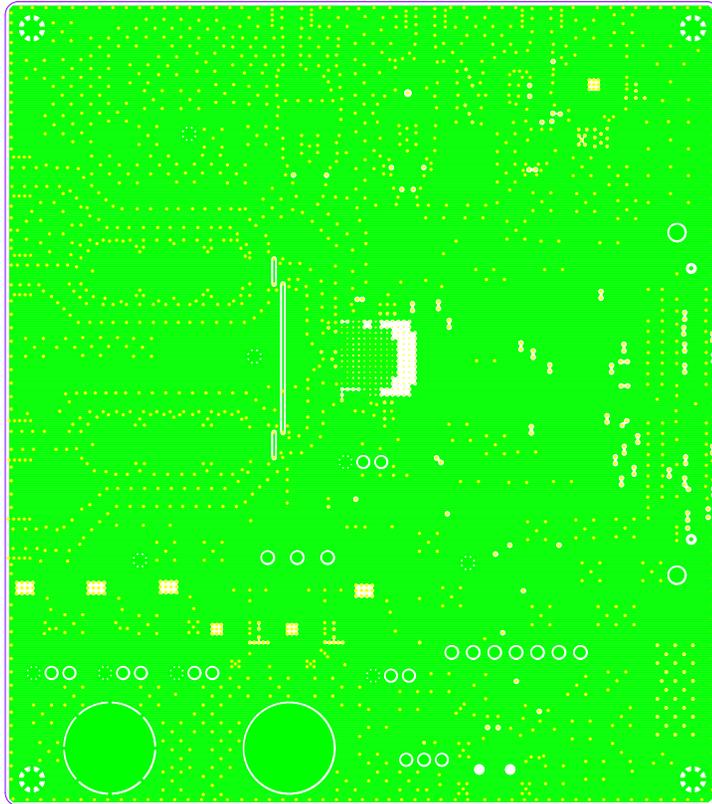


TEXAS INSTRUMENTS
ADS5402 EVM REV A
LAYER 3 GND, PWR & DIFF



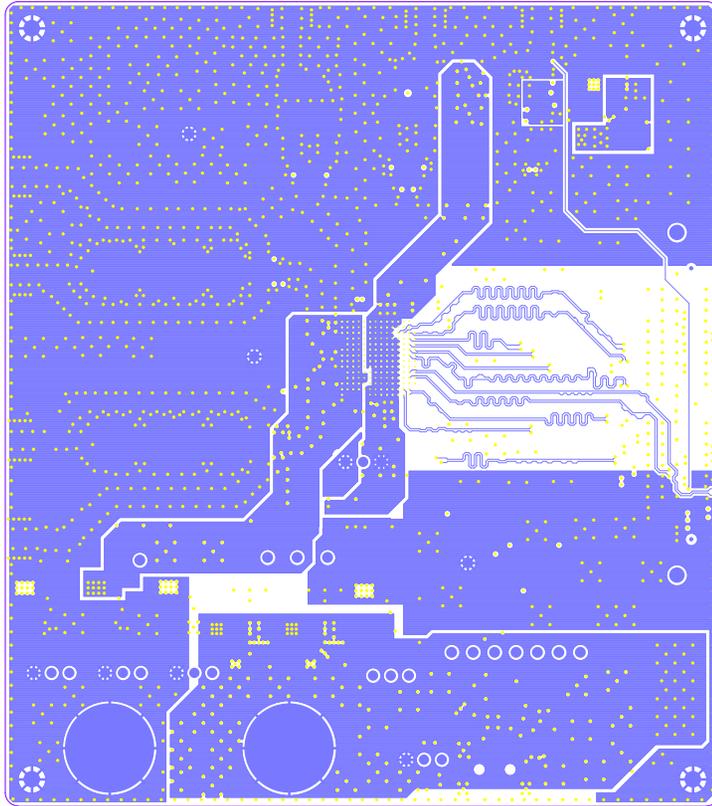
TEXAS INSTRUMENTS
ADS5402 EVM REV A

LAYER 4 - GND

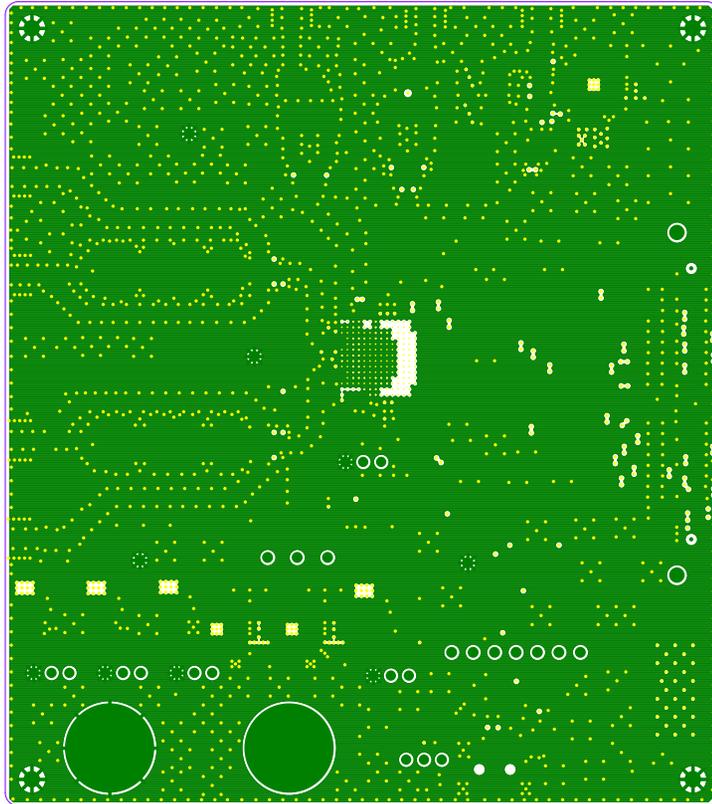


TEXAS INSTRUMENTS
ADS5402 EVM REV A

LAYER 5 - GND

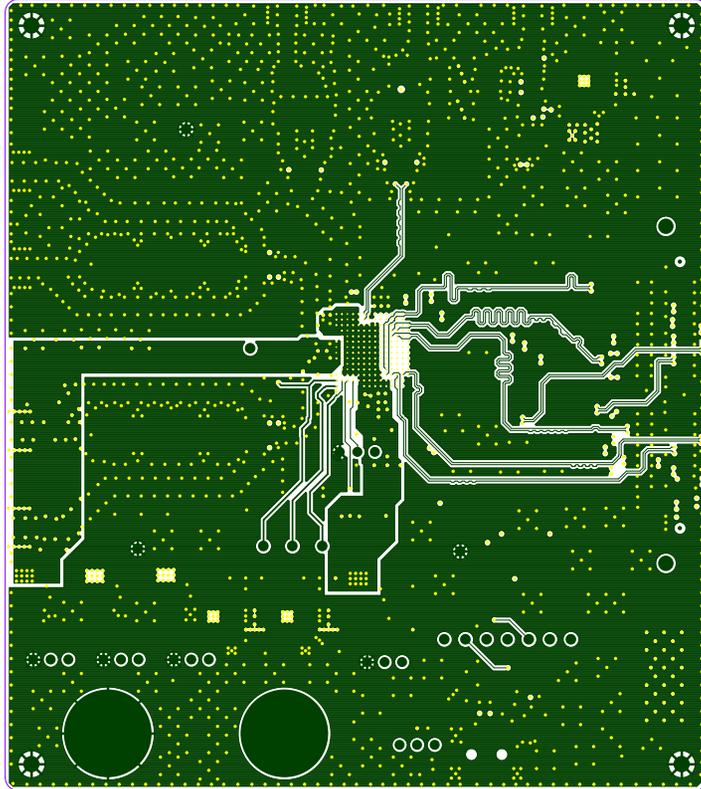


TEXAS INSTRUMENTS
ADS5402 EVM REV A
LAYER 6 - PWR & DIFF



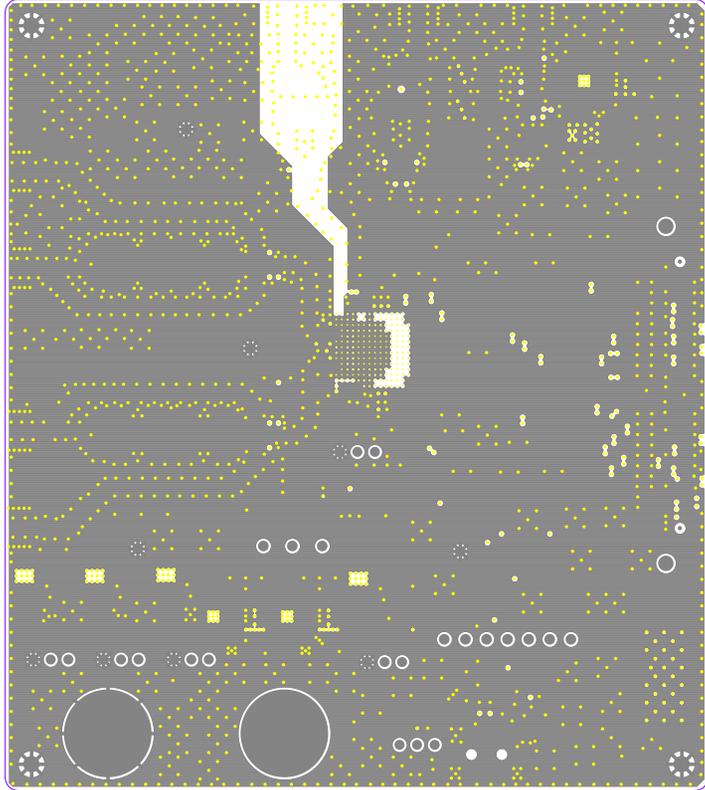
TEXAS INSTRUMENTS
ADS5402 EVM REV A

LAYER 7 - GND



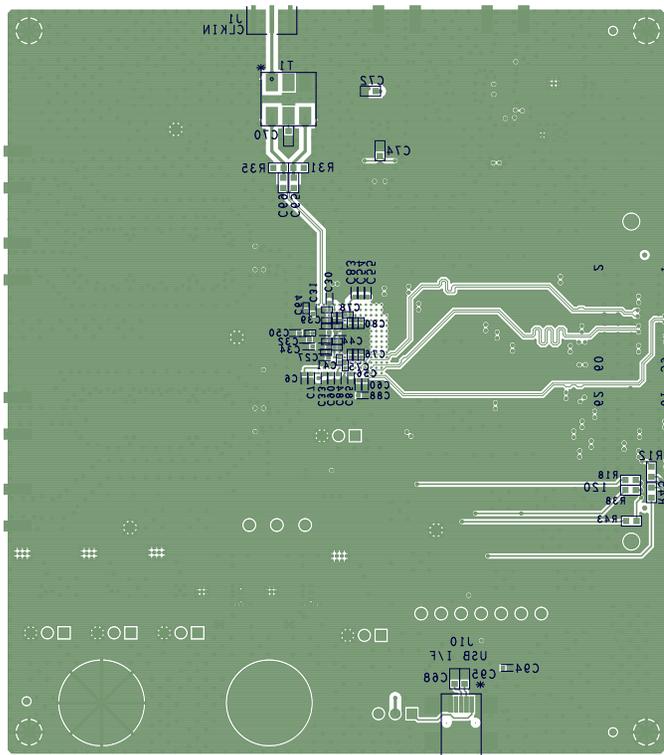
TEXAS INSTRUMENTS
ADS5402 EVM REV A

LAYER 8 - DIFFERENTIAL



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ADS5402 EVM REV A

LAYER 9 - GND



TEXAS INSTRUMENTS
ADS5402 EVM REV A
(SILKSCREEN BOTTOM SIDE)

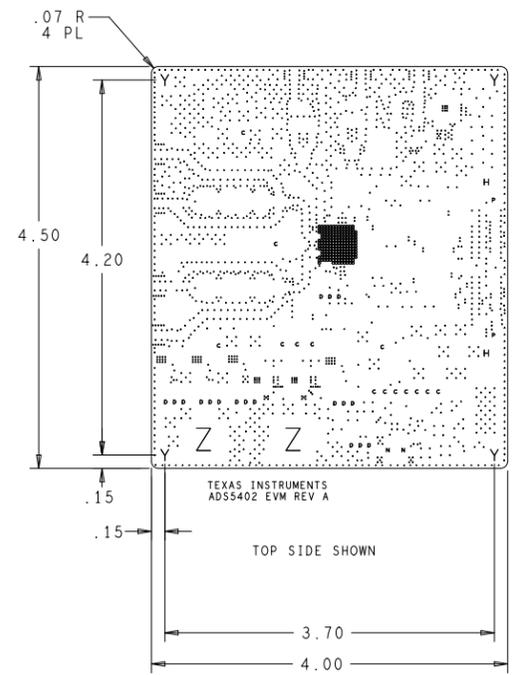
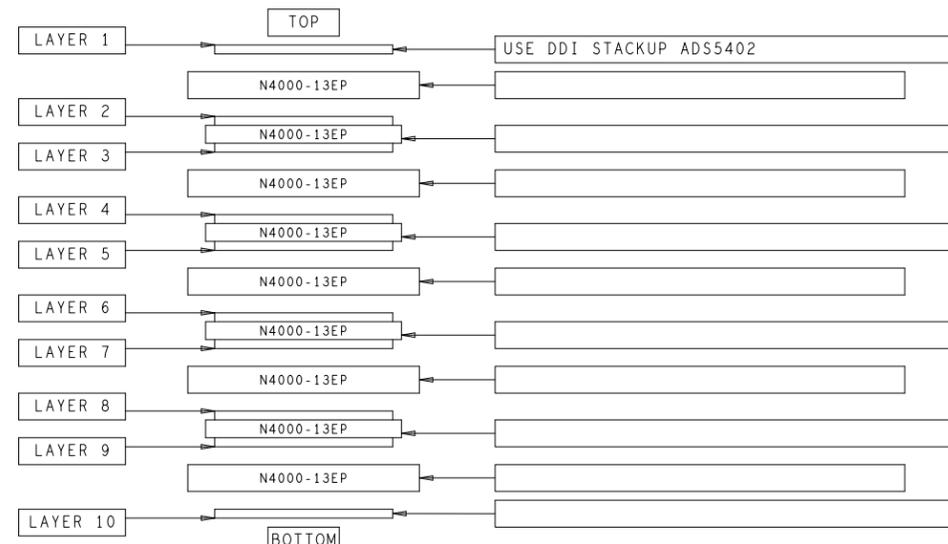
UNLESS OTHERWISE SPECIFIED, ALL NOTES ARE APPLICABLE.
 NOTES PRECEDED BY AN UNMARKED "□" ARE NOT APPLICABLE.

- 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 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.
 MATERIAL: MULTI-LAYER (SEE DETAIL "A")
 SEE LAYER STACKUP FOR ALL PRE-PREG & CORE THICKNESSES, COPPER OZ AND MATERIAL. FINISHED BOARD THICKNESS: .062 +/- 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 +/- .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 20 MIL TRACE WIDTH, REFERENCED TO LAYER 3 & 8 SHALL BE 50ohms SINGLE ENDED, +/- 10% TOLERANCE.
 ALL OUTER LAYERS USING A 7.5 MIL TRACE WIDTH AND 4.5 MIL SPACING, REFERENCING TO LAYER 3 & 8 SHALL BE 100 ohms DIFFERENTIAL, +/- 10% TOLERANCE.
 ALL OUTER LAYERS USING A 6 MIL TRACE WIDTH AND 6 MIL SPACING SHALL BE 100 ohms DIFFERENTIAL, +/- 10% TOLERANCE.
 ALL INNER LAYERS USING A 5 MIL TRACE WIDTH AND 7 MIL SPACING SHALL BE 100 ohms DIFFERENTIAL, +/- 10% TOLERANCE.
- MINIMUM COPPER CONDUCTOR WIDTH IS: 5MIL.
 MINIMUM COPPER SPACING IS: 4.5MIL.
- SMOBC/IMMERSION GOLD: 3-8 uIN OVER 100-200 uIN NICKEL PLATING.
- NO CHANGES TO ANY ARTWORK ARE PERMITTED WITHOUT WRITTEN AUTHORIZATION.
- FILL 6 & 10MIL VIAS WITH NON CONDUCTIVE EPOXY. FILLED VIAS SHALL BE PLATED AFTER FILLING AND COPLANAR.
- 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

DETAIL "A"



DRILL CHART: TOP to BOTTOM			
ALL UNITS ARE IN MILS			
FIGURE	SIZE	PLATED	QTY
•	6.0	PLATED	184
•	10.0	PLATED	1869
c	38.0	PLATED	14
•	38.0	PLATED	18
H	68.0	PLATED	2
Y	125.0	PLATED	4
Z	250.0	PLATED	2
*	39.0	NON-PLATED	2
*	40.0	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		
MATERIAL SEE NOTE 5	DRAWN	JV SMITH	FABRICATION DRAWING ADS5402 EVM	
	ENGR	R. PRENTICE		
FINISH SEE NOTES 7, 8, 9	SCALE		SIZE	REV.
	NONE		B	A
DO NOT SCALE DRAWING			SHEET 1 OF 1	