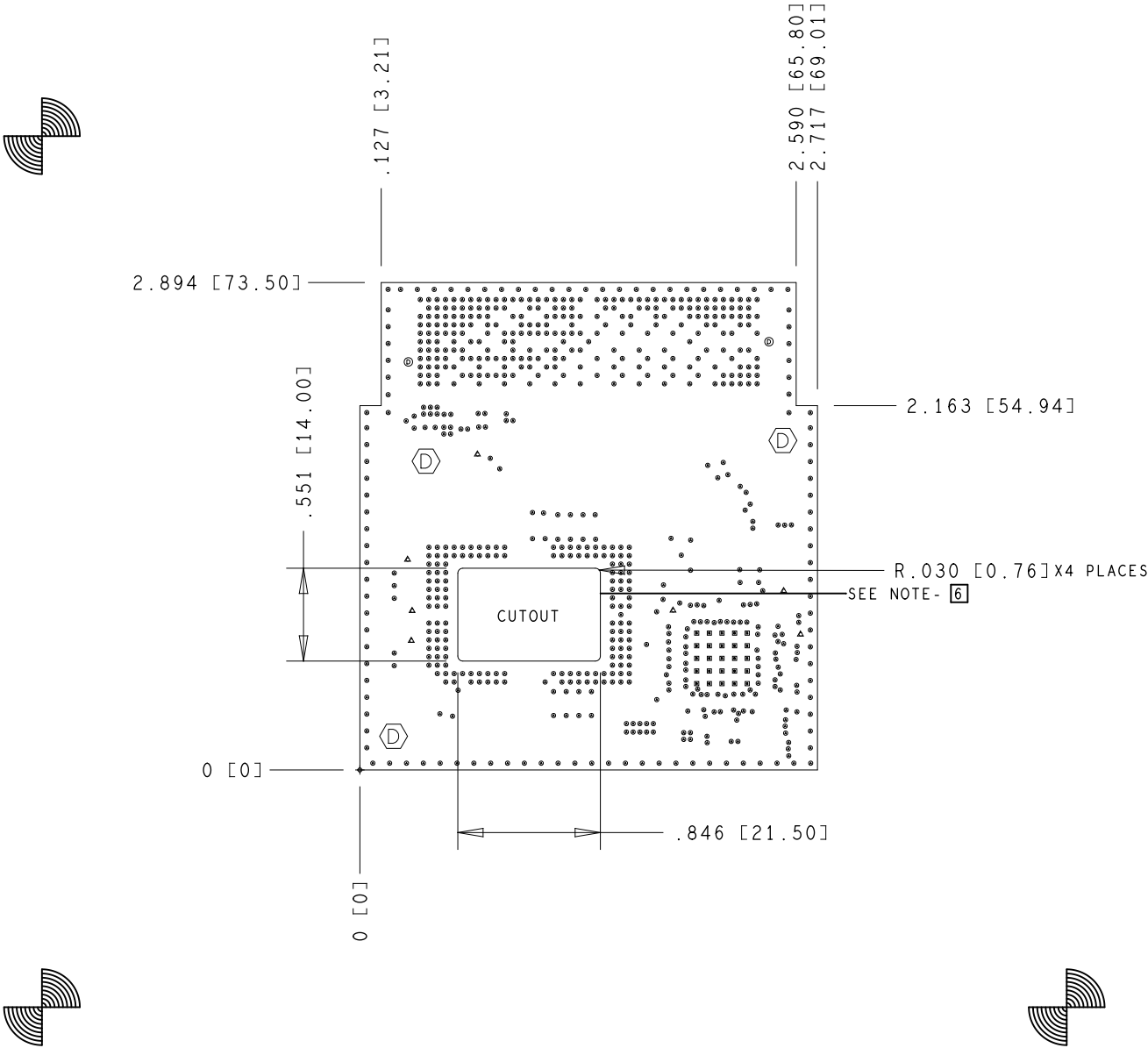


FAB NOTES:

- ALL DIMENSIONS ARE IN INCHES[MILLIMETERS] UNLESS OTHERWISE SPECIFIED
- THE PWB SHALL BE FABRICATED TO IPC-6011 AND IPC-6012, CLASS 2, TYPE 3. WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2, CURRENT REVISIONS.
- BOARD MATERIAL -REFER STACKUP BOARD MATERIAL SHALL MEET OR EXCEED IPC-4101B. COLOR: NATURAL.
- ALL BOARDS MUST MEET OR EXCEED UL94V - 0 REQUIREMENTS. PCB MUST BEAR THE UL94V - 0 UL REGISTERED MATERIAL ID NUMBER.
- ELECTRICAL TEST MARKINGS SHOULD BE LEGIBLE, PERMANENT AND LOCATED ON THE SECONDARY SIDE OF THE BOARD AND WITHSTAND WAVE SOLDER. LOCATION SHOULD NOT BE UNDER COMPONENTS. UL LOGO AND 94V-0 FLAMMABILITY RATING SHOULD BE ETCHED ON THE SECONDARY SIDE OF THE BOARD.
- IONIC CONTAMINATION LEVEL 10 uG/IN SQ MAXIMUM.
- VERIFICATION OF GOLD AND NICKEL PLATING THICKNESS REQUIRED FOR EACH FABRICATION LOT.
- MINIMUM COPPER WALL THICKNESS OF PLATED-THRU HOLES TO BE .001 INCH, WITH A MINIMUM ANNULAR RING OF .002 INCH.
- OVERALL BOARD THICKNESS TO BE .063 INCHES +/- 10% AND APPLIES AFTER ALL LAMINATION AND PLATING PROCESSES, MEASURED FROM COPPER TO COPPER.
- MAX. WARP & TWIST TO BE .005 INCHES PER INCH.
- MAXIMUM RATED VOLTAGE BETWEEN CONDUCTORS SHALL BE 65 VOLTS PEAK.
- NO BREAKOUT ALLOWED ON PLATED THROUGH HOLES.
- ALL HOLES IN DRILL CHART ARE FINISHED HOLE SIZES (FHS)
- NO VENDOR LOGO, ART WORKS SHOULD NOT BE CHANGED WITHOUT PRIOR APPROVAL FROM TEXAS INSTRUMENTS
- TEARDROPS SHOULD NOT BE ADDED ON ANY AREA WITHOUT PRIOR APPROVAL FROM TEXAS INSTRUMENTS
- SEE DETAIL A FOR IMPEDANCE REQUIREMENTS AND COPPER WEIGHTS
- THIS IS A ROHS COMPLIANT BOARD

PROCESS NOTES:

- EXCEPT AS NOTED BELOW, ALL EXPOSED CONDUCTORS ON BOTH SIDES OF THE PWB SHALL BE ELECTROLYTIC PLATED WITH MINIMUM 150 MICRO-INCHES OF NICKEL UNDER 5-15 MICRO-INCHES OF GOLD.
  - CLIP SILKSCREEN ON NO MASK AREA
  - APPLY LPI SOLDERMASK. SOLDERMASK SHALL CONFORM TO IPC-SM-840, CLASS H, CURRENT REV. COLOR: GREEN.
  - APPLY LPI SILKSCREEN OR EQUIVALENT PER THE ARTWORK. COLOR: WHITE.
  - BOARD MUST BE ELECTRICALLY TESTED USING SUPPLIED IPC-D-356 NETLIST.
- [6] NEED TO CUT THE BOARD AS PER MARKED DIMENSION
- ALL 10 ,12.01 MIL VIAS NEED TO BE SOLDERMASK PLUGGING ON BOTTOM SIDE
  - REMOVE UNUSED PADS IN ALL INNER LAYERS
  - DEBURR ALL SHARP EDGES



DRILL CHART: TOP to BOTTOM				
ALL UNITS ARE IN MILS				
FIGURE	SIZE	TOLERANCE	PLATED	QTY
•	10.0	+3.0/-3.0	PLATED	707
▪	12.01	+3.0/-3.0	PLATED	25
▲	24.02	+3.0/-3.0	PLATED	7
⊕	166.0	+3.0/-3.0	PLATED	3
⊗	50.0	+2.0/-0.0	NON-PLATED	2

DETAIL-A  
STACKUP: 8 LAYERS

		50ohm SINGLE ENDED IMPEDANCE CONTROL +/- 10%	100ohm DIFFERENTIAL IMPEDANCE CONTROL +/- 10%
TOP (0.5 oz + PLATING)		7.37 MIL	-----
IT-180A	DIELECTRIC (4.243 mils)		
02_PWR (2 oz)			
IT-180A	DIELECTRIC (7.087 mils)		
03_GND1 (2 oz)			
IT-180A	DIELECTRIC (6.423 mils)		
04_SIG1 (1 oz)		5.3 MIL	3.71/6.295 MIL
IT-180A	DIELECTRIC (7.087 mils)		
05_GND2 (2 oz)			
IT-180A	DIELECTRIC (6.423 mils)		
06_SIG2 (1 oz)		5.3 MIL	3.71/6.295 MIL
IT-180A	DIELECTRIC (7.087 mils)		
07_GND3 (2 oz)			
IT-180A	DIELECTRIC (4.653 mils)		
BOTTOM (0.5 oz + PLATING)		8.37 MIL	-----
TOTAL THICKNESS: 63 mils +/-10%			

CUSTOMER NAME			
TEXAS INSTRUMENTS			
BOARD NAME		DESCRIPTION	
DLP550HE_DLP550JE_DLP650LE_Board_Rev1		FAB	
BOARD NO.	REV	DATE	
305-PD-23-0261	1	APR 2023	