



FAB NOTES:

1. ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.
2. THE PWB SHALL BE FABRICATED TO IPC-6012 CLASS 2 AND WORKMANSHIP SHALL CONFORM TO IPC-A-600, CLASS 2. CURRENT REVISIONS.
3. BOARD MATERIAL SHALL BE IT-180A OR EQUIVALENT, RoHS COMPLIANT AND LEAD FREE ASSEMBLY CAPABLE. BOARD MATERIAL SHALL MEET OR EXCEED IPC-4101B. RoHS CERTIFICATE OF CONFORMANCE SHALL BE DELIVERED WITH EACH LOT.
4. ALL BOARDS MUST MEET OR EXCEED UL94V - 0 REQUIREMENTS. PCB MUST BEAR THE UL94V - 0 UL REGISTERED MATERIAL ID NUMBER.
5. MINIMUM COPPER WALL THICKNESS OF PLATED-THRU HOLES TO BE .001 INCH, WITH A MINIMUM ANNULAR RING OF .001 INCH.
6. OVERALL BOARD THICKNESS TO BE .062 +/- 10% AND APPLIES AFTER ALL LAMINATION AND PLATING PROCESSES, MEASURED FROM COPPER TO COPPER.
7. MAX. WARP & TWIST TO BE .005 INCHES PER INCH.
8. ALL HOLES IN DRILL CHART ARE FINISHED HOLE SIZES (FHS)

PROCESS NOTES:

1. GENERAL PLATING : ENIG
2. APPLY LPI SOLDERMASK. COLOR: GREEN. SOLDERMASK SHALL CONFORM TO IPC-SM-840, CLASS H. CURRENT REV. SOLDERMASK SHALL BE COMPATIBLE WITH SAC305 OR EQUIVALENT SOLDER ALLOY AND SOLDER FLOAT BATH TEMPERATURE OF 288°C
3. SOLDERABILITY SHALL BE IN ACCORDANCE WITH IPC/EIA J-STD-003A, WITH SOLDER BATH TEMPERATURE OF 250°C +/-5 C FOR DIP OR ROTARY TEST.
4. APPLY LPI SILKSCREEN OR EQUIVALENT PER THE ARTWORK. COLOR: WHITE. CLIP SILKSCREEN ON NO MASK AREA
5. BOARD MUST BE ELECTRICALLY TESTED USING SUPPLIED IPC-D-356 NETLIST.
6. MARKED REGION DRILLS NEED TO BE SOLDERMASK PLUGGING ON BOTTOM SIDE
7. FABRICATION VENDOR IS ALLOWED TO INCREASE SOLDERMASK COMPONENT PADS BY A MAXIMUM 1 MIL ON EACH SIDE OVER THE COPPER PAD IN ORDER TO MEET TOOLING REQUIREMENTS WHILE MAINTAINING WEBBING BETWEEN ADJACENT PADS.
8. DEBURR ALL SHARP EDGES
9. REMOVE UNUSED PADS IN ALL INNER LAYERS
10. NEED OVAL SLOT AS MENTIONED DIMENSION IN THE DRILL TABLE

SEE NOTE 6

LAYER STACK:

- LAYER 1 - PRIMARY SIDE - 0.5oz+ plating START - 50 OHMS +/-10% - .0076 WIDTH DIFFERENTIAL 100 OHMS +/-10% - .00425 WIDTH/.00475 SPACE DIELECTRIC (4.512 mil)
- LAYER 2 - GND1 - 1 oz DIELECTRIC (7.087 mil)
- LAYER 3 - SIGNAL1 - 1oz - 50 OHMS +/-10% - .0061 WIDTH DIFFERENTIAL 100 OHMS +/-10% - .004125 WIDTH/.00588 SPACE DIELECTRIC (7.582 mil)
- LAYER 4 - GND2 - 1 oz DIELECTRIC (7.087 mil)
- LAYER 5 - SIGNAL2 - 1oz - 50 OHMS +/-10% - .0061 WIDTH DIFFERENTIAL 100 OHMS +/-10% - .004125 WIDTH/.00588 SPACE DIELECTRIC (7.582 mil)
- LAYER 6 - GND3 - 2oz DIELECTRIC (7.087 mil)
- LAYER 7 - PWR - 2oz DIELECTRIC (4.512 mil)
- LAYER 8 - SECONDARY SIDE - 0.5oz+ plating START - 50 OHMS +/-10% - .0076 WIDTH DIFFERENTIAL 100 OHMS +/-10% - .00425 WIDTH/.00475 SPACE

DRILL CHART: TOP to BOTTOM

ALL UNITS ARE IN MILS				
FIGURE	FINISHED SIZE	TOLERANCE DRILL	PLATED	QTY
•	9.0	+3.0/-3.0	PLATED	541
•	12.0	+3.0/-3.0	PLATED	2228
•	14.0	+3.0/-3.0	PLATED	48
•	20.0	+3.0/-3.0	PLATED	14
•	28.0	+3.0/-3.0	PLATED	64
•	35.0	+3.0/-3.0	PLATED	5
▲	36.0	+3.0/-3.0	PLATED	4
•	38.0	+3.0/-3.0	PLATED	22
■	40.0	+3.0/-3.0	PLATED	46
•	42.0	+3.0/-3.0	PLATED	6
■	42.0	+3.0/-3.0	PLATED	20
•	45.0	+3.0/-3.0	PLATED	14
■	50.0	+3.0/-3.0	PLATED	20
Ⓚ	90.0	+2.0/-2.0	PLATED	2
Ⓚ	157.0	+2.0/-2.0	PLATED	6
▲	25.98	+2.0/-2.0	NON-PLATED	2
•	40.0	+2.0/-2.0	NON-PLATED	4
Ⓚ	50.0	+2.0/-0.0	NON-PLATED	2
▲	50.0	+2.0/-2.0	NON-PLATED	2
◆	60.0	+2.0/-2.0	NON-PLATED	4
Ⓚ	92.5	+2.0/-2.0	NON-PLATED	4
◆	94.0	+2.0/-2.0	NON-PLATED	1
◆	120.0	+2.0/-2.0	NON-PLATED	4
Ⓚ	118.11x39.37	+3.0/-3.0	PLATED	1
Ⓚ	118.11x39.37	+3.0/-3.0	PLATED	1
Ⓚ	137.795x39.37	+3.0/-3.0	PLATED	1

SEE NOTE- 10

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CUSTOMER NAME : TEXAS INSTRUMENTS
JOB NAME : DLPC4430_Rev2
PAC NUMBER:305-PD-23-0338
DATE:APR-2023
FILM LAYER:FAB