REQUIREMENTS

1. MANUFACTURE BOARD IAW (IN ACCORDANCE WITH) IPC-6012, CLASS 2.

2. TOTAL BOARD THICKNESS: 62 MILS +/- 10% ALL MATERIAL SHALL BE
   RoHS-COMPLIANT FR-4 OR EQUIVALENT

3. COPPER PLATING ON WALL OF PLATED THROUGH HOLES SHALL BE 0.8 MIL MIN FOR CLASS 2.

4. MINIMUM TRACE WIDTH: 5 MILS MINIMUM SPACING: 5 MILS

5. SOLDERMASK:
   5.1 LIQUID PHOTOIMAGEABLE (LPI) SOLDERMASK OVER BARE COPPER (SMOBC),
       TOP AND BOTTOM SIDES
   5.2 COLOR: GREEN
   5.3 RESIZING FOR OPTIMAL MASK CLEARANCE TO CONDUCTIVE FEATURES PERMISSIBLE.

6. HOLES:
   6.1 UNLESS OTHERWISE SPECIFIED ALL HOLE SIZES SHALL BE AS SPECIFIED
       +/- 3 MILS.
   6.2 ALL HOLE SIZES FOR VIAS ARE MAXIMUM DIMENSIONS ONLY.

7. SURFACE FINISH SHALL BE ELECTROLESS NICKEL IMMERSION GOLD (ENIG)

8. DRC'S MUST BE RUN ON GERBERS BEFORE BUILDING BOARDS UNLESS PRIOR
   APPROVAL IS GIVEN IN WRITING.

9. BOARD SHALL BE ELECTRICALLY TESTED USING IPC-NETLIST FILE GIVEN
   UNLESS PRIOR APPROVAL IS GIVEN IN WRITING.

10. TOOLING RAILS WITH ROUTE-AND-RETAIN ARE REQUIRED ON PANEL FOR ASSEMBLY,
    PANELIZATION IS DETERMINED BY VENDOR. ROUGH BOARD EDGES RESULTING FROM
    DE-PANELIZATION SHALL BE SANDED SMOOTH.

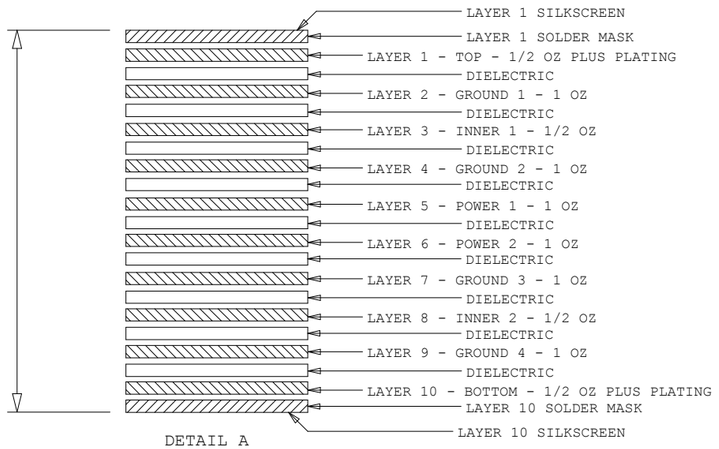
11. SILKSCREEN COLOR: WHITE

12. CONTROLLED IMPEDANCE REQUIREMENTS:
    12.1 SINGLE ENDED:
         LAYERS: TOP, INNER1, INNER2, BOTTOM
         50 OHMS +/- 5 OHMS ON ALL 5 MIL WIDE TRACES
    12.2 EDGE-COUPLED DIFFERENTIAL (100 OHMS):
         LAYERS: TOP, BOTTOM
         100 OHMS +/- 10 OHMS ON 5.01 MIL WIDE TRACES WITH 9 MIL AIRGAP
    12.3 EDGE-COUPLED DIFFERENTIAL (90 OHMS):
         LAYERS: TOP, BOTTOM
         90 OHMS +/- 9 OHMS ON 5.3 MIL WIDE TRACES WITH 6 MIL AIRGAP

13. REMOVAL OF NON-FUNCTIONAL PADS IS PERMISSIBLE.

14. WARP OR TWIST OF BOARD SHALL NOT EXCEED 0.75%

15. REMOVE ALL BURRS AND BREAK SHARP EDGES 10 MILS MAXIMUM.



DETAIL A

LAYER STACKING CONFIGURATION
SCALE = NONE

REVISION HISTORY

REV	DATE	COMMENTS	ENG
1	04/28/17	INITIAL RELEASE	WKM
-	07/19/17	CHANGES PER BUG 2402 & 2435	WAS

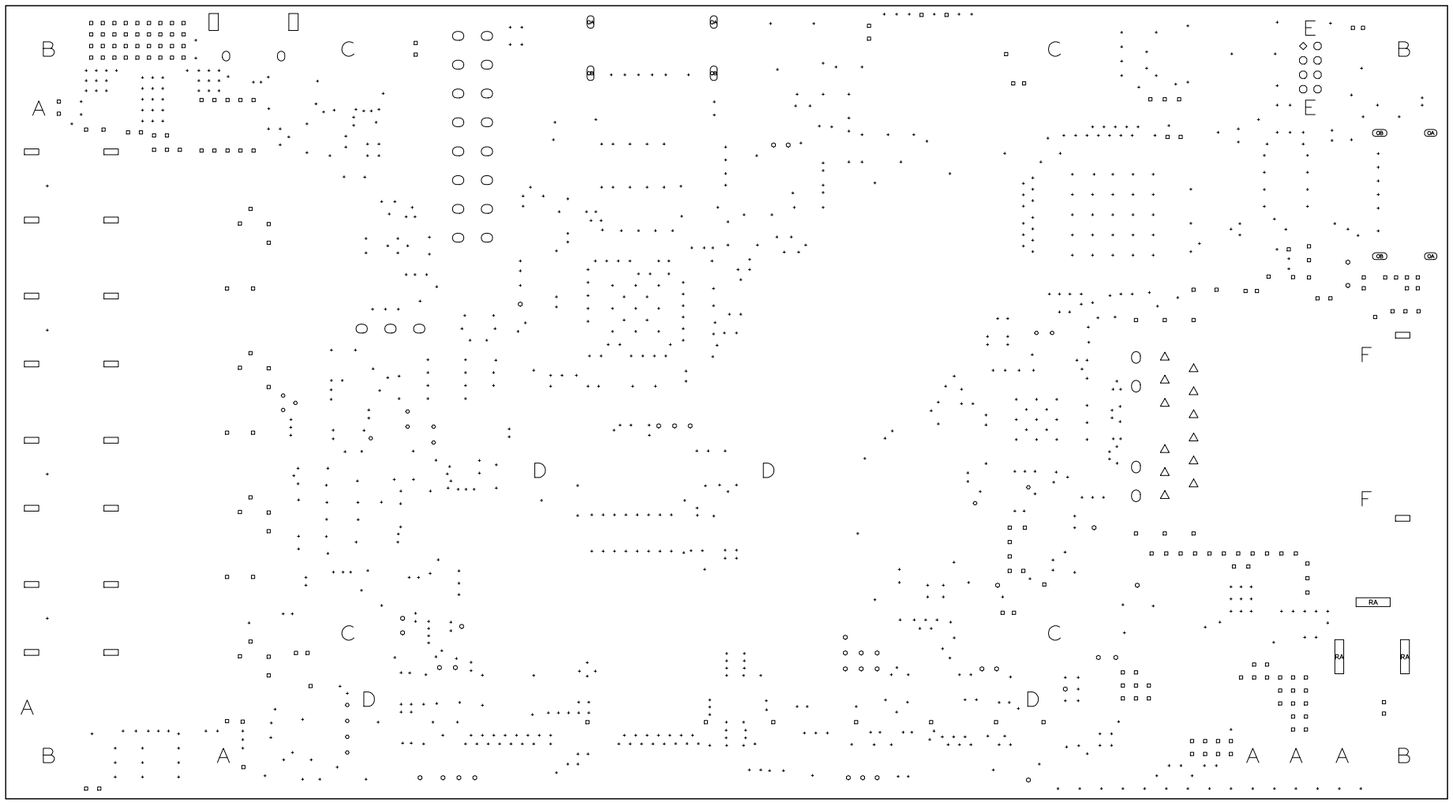
D3 ENGINEERING
1057 E Henrietta Road
Rochester, NY 14623

TITLE
PCB,
TDA3x STARTER KIT,
4-FPD BASEBOARD 2G

DWG SIZE	ITEM NO.	REV
B	PCB-00C022201	-

DRAWN BY:	APPROVED BY:	DATE:
W.SENDER	W.MURPHY	04/28/17

CAGE CODE 3V6D5	SCALE X/X	SHT 1 OF 2



DRILL CHART: TOP to BOTTOM

ALL UNITS ARE IN MILS

FIGURE	FINISHED_SIZE	ROTATION	PLATED	QTY
·	8.0	-	PLATED	903
▫	12.0	-	PLATED	201
◦	12.99	-	PLATED	16
◦	14.96	-	PLATED	36
O	25.59	-	PLATED	7
◇	25.59	-	PLATED	1
△	35.43	-	PLATED	12
O	40.0	-	PLATED	19
O	41.34	-	PLATED	4
▭	62.99	-	PLATED	18
A	72.83	-	PLATED	6
B	133.86	-	PLATED	4
C	146.85	-	PLATED	4
D	41.34	-	NON-PLATED	4
E	55.12	-	NON-PLATED	2
F	125.98	-	NON-PLATED	2
O	33.46x25.59	90.000	PLATED	2
GR	43.31x23.62	0.000	PLATED	2
GR	43.31x23.62	90.000	PLATED	2
GR	51.18x23.62	90.000	PLATED	2
GR	51.18x23.62	0.000	PLATED	2
▯	59.06x32.68	90.000	PLATED	2
RA	118.11x31.5	0.000	PLATED	1
RA	118.11x31.5	90.000	PLATED	2

TOTAL HOLES: 1254

NOTES:
- DRILL SIZES LISTED IN LEGEND ARE CONSIDERED FINISHED.
- VENDOR IS REQUIRED TO SELECT TOOLING FOR OVERDRILLING.

D3 ENGINEERING
1057 E Henrietta Road
Rochester, NY 14623

TITLE
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TDA3x STARTER KIT,
4-FPD BASEBOARD 2G

DWG SIZE	ITEM NO.	REV
B	PCB-00C022201	-

DRAWN BY:	APPROVED BY:	DATE:
W.SENDER	W.MURPHY	04/28/17

CAGE CODE 3V6D5	SCALE X/X	SHT 2 OF 2