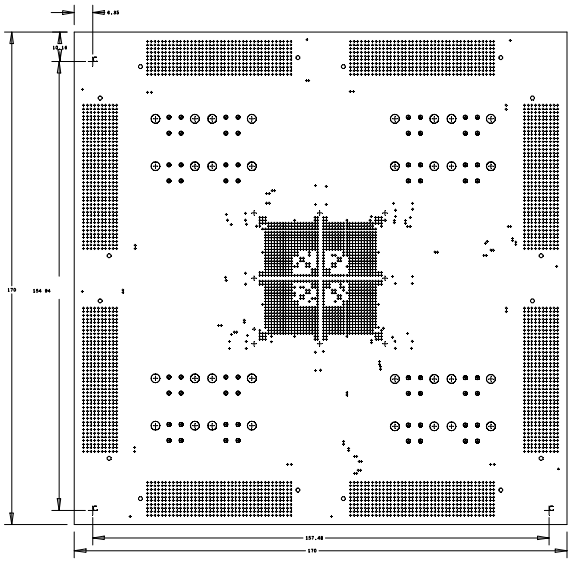
| REVISIONS | | | |
|---|---|---|---|
| REV | DESCRIPTION | DATE | APPROVED |
| 1 | Initial Release of Buddy | 4/25/17 | |




NOTES:

1. This board to be built to IPC pub Class-2

2. PCB is 24 layers. See BUDDY_Board_Stackup.pdf for stackup and Impedance details.
   Stackup_NOTE - Describes the designed impedance
   Stackup_Rev1 - Stackup rev1 (Rev1 stackup is approved by Adaptera 4/28/17)
   Manufacturer: Is allowed to make other adjustments
   to trace/space and stackup to achieve required Impedance.

3. PCB Material: ZYBOND

4. Finish: All exposed copper shall be ENIG, Soldermask shall be blue.

5. Copper thickness on external layers to be 0.5 oz plus plating.

6. Copper thickness on internal layers (unless otherwise noted) to be 1 oz.

7. All laminate materials used on this PWB must be formally qualified for,
   and compatible with, Pb-free assembly processing temperatures

8. Silkscreen both sides of board (non-conductive white epoxy Pmk).

9. Minimum conductor to conductor spacing: .100mm.

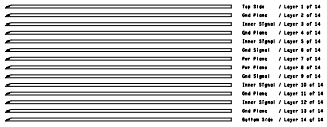
10. All holes to be plated through unless otherwise noted.
    This board uses via In pad technology. 0.2029mm vias shall be filled with non-conductive
    epoxy fill and capped over with conductive copper plating.
    Freestanding vias (not in pads) to be masked over with solder mask on both sides.

11. PCB stackup shall yield 50 OHM single ended,
    Acceptable Impedance tolerance to be 10%.
    50 OHM single ended requirement on L3, L12, and L24 can be ignored

12. All dimensions are in millimeters (mm).

13. Tolerances: .XX+/-0.25mm .XXX+/-0.125mm.

14. Non-functional pads may be removed from internal layers.




PCB STACKUP P/N BUDDY Board

| DRILL CHART: TOP to BOTTOM | | | | |
|---|---|---|---|---|
| ALL UNITS ARE IN MILLIMETERS | | | | |
| FIGURE | SIZE | TOLERANCE | PLATED | QTY |
| + | 0.2029 | +0.0/-0.2029 | PLATED | 4674 |
| ■ | 1.4 | +0.0762/-0.0762 | PLATED | 64 |
| + | 1.61 | +0.0762/-0.0762 | PLATED | 8 |
| ⊕ | 3.96 | +0.0762/-0.0762 | PLATED | 3 |
| + | 0.85 | +0.0762/-0.0762 | NON-PLATED | 2 |
| ○ | 1.27 | +0.0762/-0.0762 | NON-PLATED | 16 |
| ⊕ | 3.0 | +0.0762/-0.0762 | NON-PLATED | 32 |

| UNLESS OTHERWISE SPECIFIED | SIGNATURES | DATE |
|---|---|---|
| DIMENSIONS ARE IN mm | | |
| TOLERANCES ON: | | |
| 2 PL DECIMALS +/-.25mm | | |
| 3 PL DECIMALS +/-.125mm | | |
| ANGLES ± | | |
| FRACTIONS ± | | |

# FABRICATION DRAWING
# BUDDY

| SIZE | FSCM NO | DWG NO | DWG REV |
|---|---|---|---|
| | | | 1 |
| SCALE - FULL | | | SHEET 1 OF 1 |