



FAB NOTES FOR COLUMBIA UNIVERSITY ZIAIC00028 LED Synchro Driver (LSD) REVA:

1. STANDARDS:

- FABRICATE PCB IN ACCORDANCE WITH THE CURRENT REVISION OF IPC-6012, CLASS 2.
- DO NOT SCALE DRAWING.

2. MATERIAL:

- FR4 Tg 150 OR EQUIVALENT.
- EQUIVALENT MATERIAL SHALL BE RoHS COMPLIANT, HALOGEN FREE AND APPROVED BY YourCo.
- THICKNESS OF LAYERS SHALL BE IN AS DEFINED IN STACK-UP. SEE DETAIL A.

3. SURFACE FINISH:

- ENIG PLATING PER CURRENT REVISION OF IPC-4552.

4. HOLES:

- PLATING IN HOLES SHALL BE CONTINUOUS ELECTROLYTIC COPPER WITH 0.025 MM MINIMUM BARREL THICKNESS
- MINIMUM FINISHED HOLE SIZE: 0.33 MM (AFTER PLATING).
- SEE DRILL FILE FOR FINISHED HOLE SIZE.
- ALL HOLES SHALL BE LOCATED WITHIN 0.1 MM OF TRUE POSITION AS SUPPLIED IN CAD DATA.

5. SOLDERMASK:

- SOLDERMASK OVER BARE COPPER (SMOBC) ON PRIMARY AND SECONDARY SIDES USING SUPPLIED ARTWORK IN ACCORDANCE WITH CURRENT REVISION OF IPC-SM-840 TYPE B.
- COLOR: BLUE
- NO BLEED-OUT ALLOWED OVER EXPOSED SMD PADS.
- NO EXPOSED TRACES.
- VIA RINGS SHOULD BE COVERED.

6. SILKSCREEN:

- SILKSCREEN PRIMARY AND SECONDARY SIDE WITH WHITE EPOXY, NON-CONDUCTIVE, NON-NUTRIENT INK.
- ANY UNSPECIFIED STROKE WIDTH SHALL BE 0.13 MM
- CLIP SILKSCREEN AWAY FROM ANY EXPOSED METAL.
- VENDOR DATE CODE, LOGO, UL AND ANY ADDITIONAL MARKING TO BE LOCATED ON THE SECONDARY SIDE.
- BAG AND TAG ACCEPTABLE FOR PWBS THAT ARE TOO SMALL FOR MARKING.

7. REMOVE ALL BURRS AND BREAK SHARP EDGES R0.003 MIN.

8. NON-DESTRUCTIVE EVALUATION:

- ALL PWBS SHALL PASS 100% ELECTRICAL TEST

9. PACKAGING REQUIREMENTS:

- PWBS SHALL BE PACKAGED IN VACUUM SEALED INNER CONTAINERS.
- OUTER CONTAINERS SHALL BE SUFFICIENT TO PREVENT DAMAGE DURING SHIPPING AND HANDLING.

4 LAYER STACK-UP AS AGREED BY VENDOR

2 OZ outer layers, and 10Z Copper internal layers with total thickness 1.6mm +/-10%

Copper	1	70 um total with plating
Dielectric	1-2	0.11 mm dielectric constant 4.29

Copper	2	35 um
Dielectric	2-3	1.17 mm dielectric constant 3.96
Copper	3	35 um

Dielectric	3-4	0.11 mm dielectric constant 4.29
Copper	4	70 um total with plating