

Manufacturing and Assembly Instructions

Please ask for clarification if any instructions are unclear.

Assembly Instructions:

- 1. The JPD file contains centroid X-Y data and orientation. Orientation is such that 0 degrees indicates placement as if the reel sprocket holes are NORTH of the component. Refer to Figure 1. Do not place any items labeled as DNU.
- 2. BOM.csv contains BOM, quantities, and part numbers. Please advise before making any substitutions. Do not buy or place any parts marked as DNU, FIDUCIAL, or otherwise with a quantity of 0.
- 3. The \_J\_Fab (Front Face) and \_B\_Fab (Back Face) PDF/GDR files contain reference designators, borders, and orientation markings, such as Pin1 markings or markings for unidirectional devices such as diodes. Refer to the \_Fab files for placement guidance and Visual Inspection. Please let us know if any placement is unclear.
  - If JPD and \_Fab files disagree, the \_Fab files should be considered MASTER. Please let us know of any discrepancies you encounter.
- 4. PDF plots of gerber information are for reference only.
- 5. P25 is an assembled riser board. Refer to "Connector Pushup" files and documents.

PCB Manufacturing Requirements:

Copper Layers: 6  
Soldermask Layers: 2  
Silkscreen Layers: 1

All Layers: Trace Width / Trace Spacing : 4.5/4.5 mil  
Outer Layers: 5 oz copper  
Inner Layers: .5 oz copper

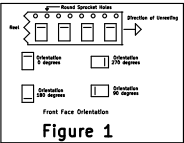
Minimum Via Annular Ring / Drill Diameter: 13mil / 8mil

Conductive Fill all 8mil and 15mil drill diameter vias. Do not conductive fill any other holes.

Dielectric: FR-4

Finished board thickness: 1.6mm +/- .1mm

ROHS Compliant Finish



FILE DESCRIPTIONS

Manufacturing Gerber Files.Zip				Files needed for PCB Manufacturing
.drl	:	Drill File		
-Edge.Cuts.gm1	:	Board Outline		
-F.Cu.gbr	:	Top-Side Copper	(Layer 1)	
-In1.Cu.G2	:	Inner-Layer 2 Copper	(Layer 2)	
-In2.Cu.G3	:	Inner-Layer 3 Copper	(Layer 3)	
-In3.Cu.G4	:	Inner-Layer 4 Copper	(Layer 4)	
-In4.Cu.G5	:	Inner-Layer 5 Copper	(Layer 5)	
-B.Cu.gbr	:	Bottom-Side Copper	(Layer 6)	
-F.Mask.gts	:	Top-Side Soldermask		
-B.Mask.gbs	:	Bottom-Side Soldermask		
-F.Silk.gpo	:	Top-Side Silkscreen		
-B.Silk.gbo	:	Bottom-Side Silkscreen		
Assembly Files.Zip				Files needed for Part Assembly
-J_Fab.pdf	:	Top-Side Placement - Visual Inspection (MASTER)		
-B_Fab.pdf	:	Bottom-Side Placement - Visual Inspection (MASTER)		
-all.pcs	:	Centroid XY data		
BOM.csv	:	BOM data		