

#	Items needed:	Format:	Required Data:	Items needed to:	
				Quote:	Assemble :
1	Bill of material:	Excel, Word, Text	MFG PN, Reference Designator, Qty, description.	Yes	Yes
2	Gerber Data:	Almost any format (ODB++ works for both gerber and CAD)	Panelized gerbers are required to order stencils.	Yes	Yes
3	CAD Data:	See Aegis Import Guide, or ODB++	Cad is required for documentation and programming. We can digitize using gerbers for an additional fee	No	Recommended
4	AVL:	Excel, Word, Text	For all turnkey orders. Approved Vendors, Alternate MFG PN's, Alternate Vendor PN's.	Yes, if turnkey	Yes, if turnkey
5	Assembly Drawings:	PDF, Excel, Word, DWG, etc...	Critical dimensions, cleaning requirements, IPC class, all mechanical details.	If available	If available

Important reminders:

Fiducials:

- 1 Please design your PCB with fiducials. Ideally we ask for 2 min per board image. The machines cannot locate the boards and place parts accurately without them.
- 2 3 fiducials on the panel, preferably on the leading and trailing rail (short side).

Panelization requirements:

- 1 Please panelize them in and array to save money and run efficiency. This also improves quality if panelized properly. Contact OBMFG with your board files for more details.
Scoring is better quality over tab-routing. If tab-routing is a must then please ask your fabricator to add
- 2 perforation holes to the tabs for easy breakaway and add enough to fully support board through reflow and placement.
- 3 Rails (AKA Frame outside board image): Industry standard is 1/2" however we only need 1/4" if that helps utilize image area during PCB fabrication.
Array Size: This is always custom. Based on PCB thickness, whether it's scored or tabbed, weight of parts and # of
- 4 images making the array efficient for quantity needed. We will gladly aid in this decision, just call or email anytime.

Components:

- 1 When ordering parts, please keep in mind we need leader to load and the machine does have some attrition. Please provide a min of 10 parts or 5% overage which ever is greater. There are exceptions such as high dollar IC's, through hole connectors, etc..
- 2 Please provide a solder sample of the PCB for reflow profiling, fixture development, etc..