

2. Data/File Requirements:

a. A Bill of Materials (BOM) with Assembly Number and Revision clearly stated in electronic format (preferably Excel) should contain the following:

- (1) Manufacturer's Part Number and/or Supplier Part #
- (2) Component Description
- (3) Quantity
- (4) Reference Designator
- (5) If possible, include Distributor Part # and Manufacturer #
- (6) The BOM should also indicate any DNI ("Do not install") locations.

b. Component Pick and Place File (PNP) in electronic format must contain the following: X/Y Centroid location, rotation, reference designator, and board side (top/bottom). We prefer the PNP to be in Excel or CSV (Comma-Separated Values) format.

c. Gerber formatted solder paste files (Consigned orders) or complete Gerber files including all layers (Turnkey orders). Design must have a minimum of 2 fiducials on any side with SMT devices.

d. CAD data also acceptable pending data review in lieu of Gerber data and Component Pick and Place File.

e. Drawings of the finished assembly are requested and will help ensure correct component placement. If not available, documentation must be provided that indicates orientation and polarity of all components, detailing any safety critical components. Sample assembled units, if available, are appreciated as well.