

Best Practice - Complete package for quoting and/or ordering a Turnkey PCBA

- 1. Full part number and revisions detailed in all files/drawings.**
- 2. BOM in Excel format including:**
 - Component designator/s
 - Mfg. &, Mfg. part numbers
 - Detailed description of component
 - Quantity per
 - Current source for part if available
 - Any: "Do Not Install" (DNI), consigned, franchised parts, and/or AVL if the case.
- 3. Assembly drawings in pdf and/or Gerber format including:**
 - Callouts and specs. for assembly
 - Tolerances
 - Special instructions for installation of parts, orientation/height, and side part is to be installed
 - ESD requirements
 - Conformal coating or potting requirements
 - Functional or final test requirements
 - Cleaning requirements, if specific process preferred
- 4. PC bare board fab drawing in pdf and/or Gerber format including:**
 - Specifications and callouts (Attached is a sample drawing with "minimum" specifications needed (Note recommended method for calling out dimensions).
 - Additional requirements such as: controlled impedance, HD requirements, multilayer stack up, etc.
- 5. Full set of Gerber Data in 274X format including:**
 - IPC Netlist
 - Pick & Place (PNP) Data
 - Gerber's for all Layers
 - Drill Data in Excellon Format
- 6. Copy of any company specific specifications.**
- 7. Is job:**
 - RoHS
 - ITAR
 - Quality specifications required. The standard specification for PCBA's unless otherwise specified is: IPC-A-610: Acceptability of Electronic Assemblies – Class 2, for Dedicated Service Electronic Products.
- 8. Special packaging or handling requirements.**