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RL-SQC-304 `(y 1.0

Printed Circuit Board Assembly (PCBA) Requirements



1. Printed Circuit Board Assembly (PCBA) Data Package

- a. Certificate of Compliance per RL-SR-001 Supplier Quality Manual
- b. All manufacturer reports/results.
 - i. The following shall be provided if the PCB was produced or procured by the PCBA subcontractor.
 - 1. The PCBA manufacturer shall include the items listed below:
 - a. Micro Sections
 - i. Final micro-sections coupon analysis shall be provided to Rocket Lab
 - ii. Coupon design shall be in accordance to IPC-2221 and the specified finished PCB characteristics.
 - b. If applicable, a complete list of the test results performed at the bare-board level or on the unpotted and potted harnesses.
 - c. Results of ionic contamination testing
 - d. All deviation and waiver reports, including all MRB actions taken on the PCBs or materials.
 - e. All raw material reports and supplier certifications, if any
- c. The PCBA Data Package shall comprise the following document:
 - i. As Built List (ABL)
 - 1. Part number and Lot or Date code Information for all components shall be recorded to the PCBA batch
 - ii. Material certificates
 - 1. Material used shall be traceable to the manufacturer's lot number through date code
 - iii. List of Assembly Materials (solder, ink, wire, flux, etc.)
 - 1. Lot and expiration date records shall be kept and provided upon request of Rocket Lab
 - iv. Deviations from drawings and parts lists and objective evidence for the approval
 - v. Copies of all redlined drawings and parts lists
 - vi. Evidence of approval from Rocket Lab for all nonconformances with disposition of Use As Is and/or Repair
 - vii. Rework documentation shall be kept and provided upon request of Rocket Lab
 - viii. Surface Mount Process Reflow Profile shall be kept and provided upon request of Rocket Lab
 - ix. X-Ray Images of CGA, BGA and BTC components shall be kept and provided upon request of Rocket Lab
 - x. High resolution photo documentation of all sides of the completed PCBA shall be kept and provided upon request of Rocket Lab

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