

REVISION HISTORY

<u>REV</u>	<u>DATE</u>	<u>ORIGIN</u>	<u>REASON FOR CHANGE(S)</u>
A	13Dec16	Robert Lange	New
B	30Oct17	Robert Lange	Update verbiage on J. Initial Process Studies
C	25Oct18	Robert Lange	Update to match requirements

Q-CODE Q40D QUALITY REQUIREMENTS

The following are the quality requirements for product purchased under Q-code Q40D. Please reference the [Plexus Supplier Quality Manual DCS # 10503](#) for additional details. Unless a written waiver is received from Plexus, the supplier agrees to abide by the quality requirements listed below which is suggested by Automotive Industry Action Group PPAP level 4 guidelines.

Pre-1st Shipment – Before a product will be released for production the supplier will be required to **RETAIN**, if not marked as **MUST BE SUBMITTED** the documentation and quality requirements as follows: Foundational requirements for any parts ready to be shipped

- A. Design Record – **(MUST BE SUBMITTED)** Printed copies of drawings and bubbled drawings for proprietary components & all other components.
- B. Engineering Change Documents, if any - **(MUST BE SUBMITTED)**
- C. Customer Engineering Approval, if required - **(MUST BE SUBMITTED)**
- D. Process Flow Diagrams -
- E. Process FMEA (Process Risk Reaction Plan)
- F. Control Plan (Quality Plan) -
- G. Measurement System Analysis Studies – **(MUST BE SUBMITTED)** Gage R&R for all of the measuring instruments and test equipment that are used for measuring critical to feature (CTF) dimensions.
- H. Dimensional Results – **(MUST BE SUBMITTED)** Every dimension of bubbled drawings
- I. Material Certification – **(MUST BE SUBMITTED)** At a minimum the material certification must include a statement declaring that the items are manufactured from the material specified. This may be included with the certificate of compliance.
- J. Initial Process Studies – Process capability studies done for CTF dimension(s) / test (s) during PPAP part production. If quantity ordered is less than 30, 100% of CTF dimension(s) / test (s) for quantity ordered needs to be submitted.
- K. Qualified Laboratory Documentation
- L. Appearances Approval Report (AAR), if applicable – **(MUST BE SUBMITTED)** Part images, part marking images, painting test requirement like adhesion test report
- M. Sample Product - **(MUST BE SUBMITTED)**
- N. Master Sample –
- O. Checking Aids
- P. Certificate of Compliance – **(MUST BE SUBMITTED)** Must include a statement of compliance to all applicable specifications (drawing, PO, customer specifications, Plexus G9000-3, IPC specifications, UL, NSF, etc...). It also must include the following:



- Name of Supplier (if different than the Manufacturer)
 - Name of Manufacturer
 - Manufacturer's Part Number
 - The Lot # or Date Code (Each shipment, COC and packing slip must contain only one lot or date code)
 - Location or place of Manufacture
 - Plexus part number ordered on the PO
 - EC level or Revision level as specified on the PO for the Plexus part number ordered
 - Certifying Signature, title, and date
- Q. Part Submission Warrant (PSW) - **(MUST BE SUBMITTED)**
- R. All cartons, required documentation, labels, packaging and packing slips must have part number, EC level or revision, quantity and P.O. number listed on them.

Subsequent Shipments – The documentation and quality requirements for all subsequent shipments will be as follows:

- A. Material Certification – same as I above
- B. Certification of Compliance – same as P above
- C. All cartons, required documentation, labels, packaging and packing slips must have part number, EC level or revision, quantity and P.O. number listed on them.

The above listed documentation must be submitted with each shipment. Any shipment received without this documentation will be considered defective.

¹The minimum-required date code format shall identify the 2-digit workweek, 2-digit year (WWYY). If the component marking contains a lot and/or date code, then those markings must be traceable to the COC. Shipments of multiple lot and/or date codes must be identified separately on the COC with the actual quantity shipped for each. Each lot and/or date code shall be independently packaged (ie., no mixed lot/date codes within a package : reels, trays, tubes, bags, etc).