

REVISION HISTORY

<u>REV</u>	<u>DATE</u>	<u>ORIGIN</u>	<u>REASON FOR CHANGE(S)</u>
A	06JUN16	Rachel Perry	New
B	29SEP16	Eric Steif	Added clarification language to COC requirements
C	5/04/18	Daniel Crouse	Added PCN language

Q-CODE 5M QUALITY REQUIREMENTS

The following are the test and quality requirements for product purchased under Q-code Q5M. Please reference the [Plexus Supplier Quality Manual DCS # 10503](#) for additional details. With acceptance and shipment against this PO, the supplier agrees to meet the requirements, unless a written waiver is received from Plexus.

ALL Shipments -The documentation and quality requirements for each shipment of parts are as follows:

- A. **Certificate of Compliance** – Must include a statement of overall compliance to all the applicable specifications (statement is not required to list, but shall cover all the applicable specifications such as; drawing, PO, customer specifications, Plexus G9000-3, IPC specification, etc). It also must include the following information for traceability:
- Name of Supplier (if different than the actual Manufacturer/OEM/OCM)
 - Name of Manufacturer/OEM/OCM
 - Manufacturer's/OEM's/OCM's Part Number
 - The Manufacturer/OEM/OCM Lot and/or Date Code, (both are preferred, lot code at a minimum and Each shipment, COC and packing slip must contain each lot and/or date code which match the parts and all included documentation)
 - 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
 - Plexus PO number
- B. **Test Report** – Must be titled as such and include the following:
The testing report shall not substitute for any additional final Customer specifications or standard practices used by a supplier. The tests themselves do not need to be duplicated if the minimum requirements are met. Sample testing must be completed on each lot/date code in the shipment. The sample shall be taken from multiple places on the reel or packaging. At a minimum the Test Report will also include the following elements:
- a. Header Information
- Name of Part Manufacturer
 - Manufacturer's/OEM's/OCM's Part Number
 - The Manufacturer/OEM/OCM Lot and/or Date Code, (both are preferred, lot code at a minimum and Each shipment, COC and packing slip must contain each lot and/or date code which match the parts and all included documentation)
 - Location or place of manufacture
 - Plexus part number ordered on the PO
 - Any additional final Customer Specifications



- b. Visual Inspection of Packaging – Visual inspection shall be completed on 100% all levels of inner and outer packaging and labels and include statement on report this visual was performed.
 - c. Visual Inspection of Component – Visual inspection shall be completed on the selected components and include statement on report this visual was performed.
 - d. XRF Test- Leaded – XRF testing of the component lead finish to verify the lead finish material and the thickness is in compliance with the product label, specification sheet and manufacturer’s tolerances. A Certification or proof of the test and plating measurements shall be included for a minimum of 3 random samples pieces (active or passive).
 - e. XRF Test - BGA – XRF testing of BGA component lead finish to verify RoHS (non-leaded)/Non RoHS (leaded) is in compliance with the product label and specification sheet. Certification or proof of the test and measurements (presence of lead in the solder balls) shall be included for a minimum of 1 random sample.
- C. Proof of Solderability – All parts older than 2 years of age must have a solderability test completed per J-STD-002. Certification of the solderability test can be included separately or within other specified documentation.
- D. All cartons, required documentation, labels, packaging and packing slips must have the Plexus part number, EC level or revision (if applicable), lot/date code(s) (lot code at a minimum), quantity, and Plexus P.O. number listed on them.

Components used in non-destructive tests must be packaged separately and labeled as such.

Product will be dry or baked and properly packaged for moisture sensitivity in accordance with IPC/JEDEC J-STD-033 and labeled appropriately per EIA JEP 113.

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

Product change notification

Upon acceptance of conforming product, documentation, and the requirements of this Q-code, the supplier’s manufacturing process shall be considered “qualified”. All changes require written approval from Plexus prior to implementation. Product or Process change notification requests (PCNs) shall be submitted to pcns@plexus.com.