



Q-CODE Q49A QUALITY REQUIREMENTS

The following are the quality requirements for product purchased under Q-code Q49A. This product is controlled by the SAE standard, AS9100 and with acceptance and shipment against this PO, the supplier agrees to meet the listed requirements, unless a written waiver is received from Plexus. Please also reference the Plexus Supplier Quality Manual DCS 10503 for additional details. This includes but is not limited to:

- Granting the right of access to the supplier's facilities at all levels of the supply chain and to all applicable records by Plexus, their customer and regulatory authorities.
- The retention of all records that support the manufacturing or materials as stated in the Plexus Supplier Quality Manual unless otherwise specified on the PO, in the purchasing specifications and/or statement of work.
- The flow down of all applicable requirements to sub-tier suppliers including key characteristics and retention of all records that support the manufacturing or material used by the sub-tier supplier per the requirements of AS9100. Please note for an approved Distributor, AS9120 can be used as a replacement for AS9100.

1ST SHIPMENT/CHANGE TO PRODUCT - THE DOCUMENTATION AND QUALITY REQUIREMENTS FOR THE INITIAL SHIPMENT AND/OR THE FIRST SHIPMENT AFTER ANY CHANGES HAVE BEEN MADE, ARE AS FOLLOWS:

- A. **First Article Inspection Requirement** - Supplier will execute the Aerospace First Article Inspection requirements of the SAE standard, AS9102 and provide the results to Plexus with each shipment in which the requirement is to be executed.
- B. **Additional First Article Inspection Requirements**
 - Only one part or assembly will be selected and inspected as part of the First Article Inspection.
 - Only one part or assembly should accompany the FAIR unless otherwise requested.
 - Raw materials must have direct traceability with the chemical and physical properties submitted to Plexus.
 - Special processes utilized by the supplier will require a certificate of compliance at a minimum.
- C. **Material Certificate** - 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.
- D. **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 # or Date Code, (Each shipment, COC and packing slip must contain only one lot or date code)
 - Location or place of manufacture
 - If the product has a shelf life, the manufacturer or cure date, batch number, the shelf life and expiration date must be included (note: the remaining shelf life must be greater than 50% of the stated shelf life). Any special handling and/or storage requirements must also be included.
 - Plexus part number ordered on the PO
 - EC level or Revision level as specified on the PO for the Plexus part number ordered
 - PO number
 - Certification of additional requirements performed per paragraph J below.



- E. Cross section report per IPC-6012 section 3.6.2 and physical sample.
- F. Hyper-corrosion - For ENIG boards, process controls shall be implemented per Plexus PCB specification G9000-3. Results and applicable cross-sections shall be retained by the supplier and provided to Plexus on request.
- G. Contamination Test Report
- H. PCB Solderability Sample - Complete and physically intact PCB or Array as supplied for the Part Number. This should be segregated and boldly identified. The box containing the solderability sample must also be identified as such
- I. 100% Electrical Testing Certificate or Stamp, including an Impedance report on impedance designs
- J. Additional Requirements
 - This part has "/" and one or more letters included in the part description and requires 'Upscreening' or other testing before parts are shipped to Plexus. Supplier is to review Moog document DPRS10001000-60 and part-specific screening documents provided with purchase order (if applicable) and include the additional requirement in their quote.

All cartons, required documentation, labels, packaging and packing slips must have the Plexus part number, EC level or revision (if applicable), date code(s), quantity, and P.O. number listed on them.

SUBSEQUENT SHIPMENTS - THE DOCUMENTATION AND QUALITY REQUIREMENTS AS LISTED BELOW ARE REQUIRED WITH EACH SHIPMENT

- A. First Article Inspection Requirement - Supplier will execute First Production Run requirements and provide the results to Plexus with each shipment following any subsequent change that invalidates the previous first article inspection result per AS9102. In addition, parts held in inventory by the supplier for 2 or more years or not received by Plexus in 2 or more years must have the First Production Run requirements performed to assure no revision change or part deterioration during storage.
- B. Material Certification - same requirements as C above.
- C. Certificate of Compliance - same requirements as D above.

All cartons, required documentation, labels, packaging and packing slips must have the Plexus part number, EC level or revision (if applicable), date code(s), quantity, and P.O. number listed on them.

When the revision of the part changes, 1st Shipment requirements must be completed and submitted by the supplier before or along with the shipment of product to Plexus.

The above listed required documentation must be submitted with each shipment. Shipments received without the completion and proper execution of these Quality Requirements is considered non-conforming and Plexus reserves the right to return to the supplier at the supplier's expense.

PRODUCT CHANGE NOTIFICATION

Product or Process change notification requests (PCNs) shall be submitted to pcns@plexus.com, please reference the details of our PCN policy and requirements in the Plexus Supplier Quality Manual DCS 10503.

REVISION HISTORY

REV	RELEASE DATE	ORIGINATOR	DESCRIPTION OF CHANGE(S)	REASON FOR CHANGE(S)
A	04May2021	Daniel Stolhanske	New - Initial Release	Specific customer requirements