



REVISION HISTORY

<u>REV</u>	<u>DATE</u>	<u>ORIGIN</u>	<u>REASON FOR CHANGE(S)</u>
A	25Jul17	Brian Davis, Rachel Perry Travis Quinn	New
B	5/04/18	Daniel Crouse	Added PCN language
C	28Jun23	Elise Tilton	Updated record retention (15 to 10), solderability testing (2 to 5), XRF Sample size (3 to 1) and added the "OR" on traceability codes to align with customer requirements
D	01Jan24	Elise Tilton	Removed section H Test and Inspection Data which change the remaining bullet letters. Added MPF -15F applicability to section D XRF Testing and reformatted text for clarification.

**Q-CODE Q42C QUALITY REQUIREMENTS**

The following are the quality requirements for product purchased under Q-code Q42C. These requirements are specific to Plexus customer ViaSat Inc. This includes but is not limited to granting the right of access to the supplier's facilities and all applicable records to Plexus, their customer ViaSat Inc and regulatory authorities with the acceptance of this Purchase Order, flow down all applicable requirements to sub-tier suppliers including key characteristics and retention of all records for 10 years (15 years preferred) that support the manufacturing or material per the requirements of this Plexus customer. Unless a written waiver is received from Plexus, the supplier agrees to abide by the quality requirements listed below **for products with traceability requirements**.

In addition to the PO requirements and requirements set forth below, all parts and products produced against this purchase order must also comply with ViaSat Quality Assurance Procurement Provisions (PR000512). This document can be located at the following: <https://www.viasat.com/supplier-quality-documents>.

ALL Shipments:

Shipments and handling of Export Controlled Items, Data, or Services – Supplier will be required to meet the documentation and quality requirements as follows:

The Supplier agrees to comply with The Arms Export Control Act, 22 U.S.C 2751-2794, the International Traffic in Arms Regulation (ITAR), 22 C. F. R. 120 - 130, the Export Administration Act, 50 U.S.C. app 2401-2420, and the Export Administration Regulations, 15 C.F.R. 730-774 for this product, all specifications, and associated documentation. This includes, but is not limited to:

- Export controlled items, data, or services, or any element thereof, will not be exported from the United States without U.S. Government authority and the express written authorization of a Plexus ITAR Empowered Official.
- Export controlled items, data, or any element thereof, will not be transferred or disclosed to foreign persons including transfer to foreign persons employed by or associated with, under contract to Sub-tier suppliers including transportation carriers.
- Import Licenses will be provided with all shipments where applicable.

- 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 Specifications, etc.). A CoC provided by an authorized distributor is acceptable for COT's components purchased from said distributor.

It must also 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 Number and/or Date Code and if applicable, serial numbers. Each shipment, COC and Packing Slip Must Contain One Lot and/or One Date Code Only (**single lot number**) per line.
NOTE: Please contact Plexus Purchasing if further clarification is needed.
- Location or place of Manufacturer.
- 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.

- B. Manufacturer Certificate of Compliance** – When buying directly from the Manufacturer, a Manufacturer COC Must be included along with the shipment. The Manufacturer COC Must be traceable to the parts supplied.

- C. Supplier Quality Management system** - The materials and services processed for this order must be controlled by a documented quality management system that conforms to ISO 9001 or AS9100, as appropriate, or MIL-I- 45208.

- D. XRF Testing Certification** - Note: *ONLY Required for part numbers including – 15F as a suffix on the part number*
Testing shall be completed on each lot components that are intended to have a solderable termination surface/lead finish (including BGA and BGA balls). One part shall be sampled randomly from each date code/lot code.

The XRF test method shall be in compliance with MIL-STD-1580, Requirement 9, latest version to verify and confirm:

- 1) at least 3% Pb alloying has occurred
- 2) the termination finish contains no zinc
- 3) the termination finish contains no cadmium
- 4) the lead finish material and thickness are in compliance with the RoHS designation, product label, specification sheet and manufacturer's tolerances

A XRF Testing Certification or proof of the test, results and plating measurements shall be included with the shipment.

- E. Proof of Solderability** – All parts older than 5 years of age must also have a solderability test completed per J- STD-002. Certification of the solderability test can be included separately or within other specified documentation and meet IPC-610 Class 2 requirements.
- F. Age Control of electronic parts** - The Supplier shall deliver only those parts manufactured less than five years prior to date of shipment. This shall be evidenced by date code marking on each individual part when required by the procurement specification or drawing and the device must be functional and meet all manufacturer specifications.
- G. Calibration System** - Measurement and test equipment (M&TE) used in the performance of this PO shall be calibrated in accordance with ANSI/NCCL Z540-1 or ISO 10012.1. In the event M&TE is later found to be out of calibration after its use on products, the Supplier shall immediately notify Plexus. The Supplier shall generate an internal Corrective action providing Plexus the Part Numbers and S/Ns of all affected products delivered. In addition, the details of the out of tolerance condition shall be provided.
- H. ESD-Sensitive Material** - ESD Material shall be in compliance with the current version of the ANSI/ESD S20.20 standard, MIL-STD-1686 or MIL-PRF-81705.
- I. Components sent or for re-tinning to remove pure tin finish** - Any components sent out for re-tinning to remove pure tin will require in addition to the above the following:
- Certificate of compliance: as above
 - Traceability of components: All components (Electrical, Electronics, & Mechanical) used on this PO shall be traceable to the original manufacturer's lot or date codes and supporting approval documentation (e.g., POs & C of C). This also applies to test data and reports, as specified in the applicable PO, contract or specification. The Supplier must be able to trace these components to all delivered items.
- J.** All cartons, required documentation, labels, packaging and packing slips Must have Plexus part number, EC level or Revision, quantity and PO number listed on them.

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

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.