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## **1 Purpose**

The purpose of this document is to specify the quality codes for suppliers & outsourcing service providers who provide products or services specified in Purchase orders and other Contractual requirements from VIAVI. It defines the requirements for efficient control of quality through the phases of manufacturing, assembly, inspection and test.

## **2 Scope**

Quality codes specified in this document will be included in the Purchase orders and other Contractual requirements on a case-by-case basis.

## **3 Definitions**

Special Process: Process whose results cannot be detected at full extent by inspecting or measuring its outcome such as heat treating, plating, chemical conversion.

## **4 Quality Codes**

### **4.1 - CL3-00**

Supplier shall adhere to and ensure that PCBAs supplied are compliant with IPC-J-STD-001 Class 3 standard. IPC-A-610 may be used as a companion document to IPC-J-STD-001 for visual reference of IPC-J-STD-001 requirements.

Suppliers are authorized to use the most recent previous revision of IPC-J-STD-001, including approved amendments, for up to 24 months from the latest revision release date.

Supplier shall adhere to and ensure that PCBs supplied are compliant with IPC-A-600 Class 3.

## 4.2 - CFT-00

Supplier shall have a documented process for avoidance, detection, mitigation, and disposition of fraudulent/counterfeit electronics parts.

The counterfeit electronic part detection and avoidance system shall include risk-based policies and procedures that address, at a minimum, the following areas:

1. The training of personnel.
2. The inspection and testing of electronic parts, including criteria for acceptance and rejection. Tests and inspections shall be performed in accordance with accepted industry-recognized techniques. Selection of tests and inspections shall be based on minimizing risk. Determination of risk shall be based on
  - Probability of receiving a counterfeit electronic part
  - Probability that the inspection or test selected will detect a counterfeit electronic part
  - Potential negative consequences of a counterfeit electronic part being installed
3. Risk-based processes that enable tracking of electronic parts from the original manufacturer.
4. Reporting to VIAMI when the supplier becomes aware of, or has reason to suspect that, any electronic part or end item, component, part, or assembly containing electronic parts purchased by the supplier for delivery to VIAMI contains counterfeit electronic parts or suspect counterfeit electronic parts. Counterfeit electronic parts and suspect counterfeit electronic parts shall not be returned to the supplier or otherwise returned to the supply chain until such time that the parts are determined to be authentic.
5. Methodologies to identify suspect counterfeit parts and to rapidly determine if a suspect counterfeit part is, in fact, counterfeit.
6. Design, operation, and maintenance of systems to detect and avoid counterfeit electronic parts and suspect counterfeit electronic parts.
7. Flow down of counterfeit detection and avoidance requirements stated in this Q code, to sub-tier suppliers at all levels in the supply chain that are responsible for buying or selling electronic parts or assemblies containing electronic parts.
8. Process for keeping continually informed of current counterfeiting information and trends, including detection and avoidance techniques contained in appropriate

industry standards, and using such information and techniques for continuously upgrading internal processes.

9. Access to Government-Industry Data Exchange Program (GIDEP) or other credible sources of counterfeiting information to avoid the purchase or use of counterfeit electronic parts.
10. Control of obsolete electronic parts in order to maximize the availability and use of authentic, originally designed, and qualified electronic parts throughout the product's life cycle.

#### **4.3 - CML-00**

Supplier shall use commercially reasonable efforts to:

1. Identify whether parts/components that are supplied contain (3TG) Tantalum, Tin, Tungsten or Gold.
2. Conduct a reasonable country of origin inquiry regarding the origin of such minerals in such parts/components to determine whether such minerals originated in covered countries, as defined in section 1502 of the Dodd-Frank Wall Street reform and Consumer protection Act.
3. Conduct due diligence on the chain of custody of the source of any minerals originating in covered countries to identify the smelter of said minerals.
4. Assist VIAVI in conducting reasonable due diligence concerning the smelters of such minerals.
5. Provide VIAVI with reasonable documentation of supplier's and its sub-tier suppliers' due diligence efforts, using the Conflict Minerals Reporting Template (CMRT).

Supplier shall include the requirements stated in this Q code, in agreements between supplier and its sub-tier suppliers.

#### **4.4 - FAI-00**

Supplier shall perform First Article Inspection (FAI) according to the requirements of AS9102.

Supplier shall perform FAI in the following cases:

- A change in the design characteristics affecting fit, form, or function of the part.

- A change in manufacturing source(s), process(es), inspection method(s), location of manufacture, tooling, or materials that can potentially affect fit, form, or function.
- A change in numerical control program or translation to another media that can potentially affect fit, form, or function.
- A natural or man-made event, which may adversely affect the manufacturing process.
- Implementation of corrective action required to complete a previous FAI.
- A lapse in production for two years shall require an update for any characteristics that may be impacted by the inactivity. This lapse is from the completion of last production operation to the actual restart of production.

A copy of First Article Inspection Report (FAIR) for each First Article Inspection (FAI) shall be provided to VIAVI before the shipment of the unit.

#### **4.5 - NDP-00**

Suppliers, including their sub-tier suppliers, performing a special process, per the requirements, shall be Nadcap accredited.

Nadcap accreditation shall apply to the following:

- Plating and Chemical Finishing Processes such as (but not limited to) Conversion Coating, Passivation, Oxide Coating, Anodic Coating, Vapor Deposited Coating, and Plating.
- Paint Application Processes

#### **4.6 - QMS-00**

Supplier`s Quality Management System shall be certified to AS9100, AS9120 or ISO 9001 by a certifying body that is accredited by International Aerospace Quality Group (IAQG) or International Accreditation Forum (IAF) member, signatory or accreditation body.

#### **4.7 - RCH-00**

Based on Article 33 of European Regulation (EC) n. 1907/2006 (REACH), any supplier of an article(s) containing a substance in the candidate list of substance of very high concern (SVHC), meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0,1 % weight by weight (w/w), shall provide VIAVI with sufficient information, to allow safe use of the article including, as a minimum, the name of that substance and its/their concentration in that article(s).

Supplier shall provide, free of charge, within 45 days, relevant information that supplier and/or its sub-tier suppliers are required to communicate down the supply chain (that is,

any subsequent purchaser or user) under the REACH Regulation, and in any case, to provide all the information necessary for VIAVI and/or the actors down its supply chain, to timely and accurately fulfill their obligations under the REACH Regulation.

#### **4.8 - REC-00**

This Quality Code supersedes the requirements in section 4.18 of the QMS-BQR-P, Basic Quality Requirements for Suppliers. Supplier shall retain all records of procurement, receiving inspection, manufacturing, assembly, inspection, tests and shipping for at least 7 years from product delivery.

#### **4.9 - RHS-00**

Based on the Directive 2011/65/EU of the European Parliament and of the council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment and its subsequent amendments, supplier shall ensure that parts/components do not contain the substances no more than the maximum concentration value by weight in homogeneous materials as specified in Annex II.

#### **4.10 - SPM-00**

Supplier shall meet the requirements specified in DFARS clause 252.225-7009, Restriction on Acquisition of Certain Articles Containing Specialty Metals.