

POLYTRONIX, INC.

Wherever Polytronix, Inc. is listed in this document, Panelight Components Group, LLC shall be incorporated.

Supplier Quality Provisions

The following clauses, when specified in the Purchase Order (PO) by clause number, become a part of the Purchase Order requirements. The supplier must flow down these Quality Provisions as specified on each PO to sub-tier suppliers including key characteristics where specified. Supplier must flow down customer specific requirements that are included in the Purchase Order to all sub-tier suppliers.

Supplier Ethical Behavior

Polytronix, Inc. partners with suppliers to ensure a supply chain that is committed to the ethical sourcing of materials and products, is free from unethical business practices, and is respectful of human rights.

Ethical Principles Practiced:

Avoid even the appearance of unethical or compromising business practices.

Comply with all applicable laws and regulations in the countries in which they operate.

Human Rights Practiced:

Treat their employees and contractors with dignity and respect.

Maintain policies and procedures to safeguard against key human rights issues, including discrimination, child labor, and forced labor.

Provide safe working conditions, reasonable working hours, and just remuneration.

Definitions/Exclusions:

Authorized Distributor – Distributor of Equipment, Components, or Raw Materials that has a direct relationship with the OEM/OCM and is authorized to represent the OEM/OCM in the sale and distribution of OEM/OCM products.

Independent Distributor – Distributor of Equipment, Components or Raw Materials other than an OEM/OCM Authorized Distributor

Counterfeit Item - Counterfeit item means an unlawful or unauthorized reproduction, substitution, or alteration that has been knowingly mismarked, misidentified, or otherwise misrepresented to be an authentic, unmodified item from the original manufacturer, or a source with the express written authority of the original manufacturer or design activity, including an authorized aftermarket manufacturer. Unlawful or unauthorized substitution includes used items represented as new, or the false identification of grade, serial number, lot number, and date code or performance characteristics.

Suspect counterfeit item means an item for which credible evidence (including but not limited to, visual inspection or testing) provides reasonable doubt that the item is authentic.

Commercial Off-the Shelf (COTS) Items – Distributors of COTS products/components are provided the following exclusions related to Quality Provisions 2, 3, 6, 7, 17, 18, and 19.

- QP 2. Components packaged by the OEM in suitable packaging to protect the products from damage or contamination are not required to be repackaged.

POLYTRONIX CONFIDENTIAL & PROPRIETARY INFORMATION

This Document Not Controlled if Printed.

QP 7.4.2.1 Rev T

- QP 3. Requirements for traceability records not meeting the requirement of ten (10) years' retention, upon request, shall be transferred to Polytronix, Inc. for retention.
- QP 6. Supplier has no control over changes to material, composition, processes, or manufacturing location, however Supplier shall not provide alternate or substitute parts from the same or different OEM without authorization in writing from Polytronix purchasing contact.
- QP 7. Suppliers of COTS shall maintain an acceptable Quality Management System (Example: ISO9001 Certification) and shall notify Polytronix, Inc. Purchasing Department if the status of the certification changes.
- Inclusive in this requirement the Supplier must be in compliance with all statutory and regulatory requirements and in compliance with FOD (Foreign Object Debris/Foreign Object Damage) guidelines.
- QP 8. Authorized Distributors of standard components or equipment (OCM/OEM) will provide C of C in relation to the certifications provided by the OCM/OEM. Authorized Distributors will maintain records from original OCM/OEM to ensure traceability to original purchaser orders for components or equipment.
- QP 17. Suppliers of COTS will maintain a Corporate Conflict Minerals Policy in support of Dodd-Frank Act, Section 1502, and will provide any such Conflict Mineral information related to Polytronix purchased COTS available from the Supplier upon request.
- QP 18, QP 19. Suppliers of COTS shall, to the best of their knowledge, provide the RoHS and REACH compliance status of all COTS products delivered to Polytronix, Inc.
- QP 21. Suppliers of COTS products will exercise due diligence to inform Polytronix, Inc. Purchasing Department of COTS that are designated as obsolete, or are at the end of the product lifecycle, or offered for "lifetime buy" if the specific item has been purchased by Polytronix within the previous 24 months.
- QP 22. Suppliers of QPL (Qualified Parts List) items will ensure that all items listed on the Purchase Order designated as QPL Items are supplied from current approved Manufacturers or current approved Distributors as identified in the ASSIST DLA Database.

1.0 Packaging, Marking and Shipment

Supplier shall package all material in a manner that ensures protection against deterioration and damage during shipment. Each container shall be identified with the following information:

- 1.1. Polytronix Part Number or Supplier Part Number as applicable.
- 1.2. Lot or Batch number
- 1.3. Perishables - Identify each unit with appropriate markings such as expiration date, manufacture date, storage, and handling conditions as applicable.
- 1.4. Handling and Storage requirements as applicable (Clause 2 Required for ESD Materials)
- 1.5. Supplier shall meet all governmental regulations in the transportation and disposal of applicable materials including documentation such as Material Safety Data Sheets (MSDS).
- 1.6. Shipment will include Packing List.

2.0 ESD

All items shall be packaged in static shielding material and labeled appropriately per IEC 61340-5-1 & 2 "ESD Protective Packaging". ANSI/ESD S541 Packaging Materials for ESD Sensitive Items ANSI/ESD STM 11.31-2012

3.0 Traceability and Control of Records

All items shall be traceable to raw materials, processes and inspections used to provide evidence of conformity to requirements. The supplier shall maintain traceability information on file of all materials and parts used in fabrication of delivered product. All traceability and inspection records shall be made available upon request. Record retention shall be maintained for a minimum of 10 years.

Supplier will notify Polytronix of any Quality Records that will be destroyed prior to 10 years and make the records available to Polytronix if requested.

4.0 Non-Conforming Material or Product

The supplier shall not submit non-conforming product to Polytronix without first written notification to Polytronix purchasing contact and written approval from Polytronix purchasing. The supplier shall indicate the non-conformance, reason, quantity, corrective action, and contact information. Upon receipt of a corrective action request the supplier shall provide an initial containment response within 3 business days or as indicated by the request. The initial response shall verify containment: identify any other nonconforming or similar parts that have been shipped, verify if there is any stock with the same issue, and verify if there are any parts in process that have the same nonconformance.

Containment response must include actions to be taken by Polytronix and supplier to purge any non-conforming items from the supply chain.

5.0 Access to Supplier's Facilities

Polytronix, Polytronix's customer and relevant regulatory authorities, upon proper request, will have access to Supplier's and their subcontractor's facilities, where they will have access to all procedures, practices, processes, and associated documents related to quality. Evidence of all inspection / tests used to show product conformance must be available for review. Polytronix reserves the right to determine and verify quality of work, records, and materials.

6.0 Change Authority

Supplier will notify Polytronix Purchasing Department of any proposed changes in materials, part/component composition, processes, sub-tier contracting prior to implementing any changes in validated parts/components and/or processes. Supplier shall not make changes to materials, composition, processes, sub-contracting, and place of manufacture unless approved in writing by Polytronix purchasing contact.

7.0 Quality Management System Requirements

The supplier shall maintain a quality system that complies with the requirements as identified in the Scope of Approval assigned by Purchasing and/or Quality and listed in the Polytronix ERP System Supplier Approval List. (Examples: AS9100, ISO 9001, ISO/TS 16949, Nadcap)

7.1. The supplier Quality Management System shall include as applicable:

- a. Compliance to all applicable statutory and regulatory requirements
- b. Compliance with FOD control and prevention programs. (ISO and/or AS Control of foreign objects)

8.0 Certificate of Conformance

Each shipment shall have a **legible and reproducible** certificate of conformance, "C of C", which shall include as a minimum:

8.1. A statement that items were manufactured to and meet the specified requirements.

8.2. Printed name and signature of authorized quality representative of seller.

(NOTE: COTS and/or OEM Certifications do not require a signature)

- 8.3. Part Number as called out on Polytronix's PO. (Supplier's Part Number may also be included on C of C.)
- 8.4. Quantity and when applicable serial numbers of Items delivered.
- 8.5. Polytronix's PO number.
- 8.6. Lot identification of items delivered.
- 8.7. When required on the Purchase Order, Country of Origin.

9.0 Configuration Management

The seller shall maintain a configuration management system compliant to ISO 10007. Seller shall provide documentation-showing control of manufacturing activities upon request such as: process flow chart, references to work instruction documents and revision, drawings, tooling, equipment, and material control.

10.0 Inspection Plan

The supplier shall provide an inspection and test plan indicating acceptance criteria for items specified on the PO. Upon request a copy of the test plan will be provided to Polytronix for approval prior to start of production.

11.0 Inspection and Test Data

Evidence that items meet specified requirements are to be supplied to Polytronix upon delivery. Documentation shall be identifiable with PO items and contain chemical and/or physical properties. Documentation shall include printed and signed name of authorized representative of inspecting facility.

Supplier shall use an inspection sampling plan that meets the requirements of industry acceptance plans. (Examples: ANSI/ASQC Z1.4, NF06-022, BS 6001, DIN 40080)

Supplier shall maintain a documented program to ensure control of Acceptance Authority Media (AAM) to comply with AS/EN/JISQ 9100 requirements regarding the use of Inspection/Acceptance media.

Supplier shall maintain a log of all personnel authorized to Inspect/Accept product delivered to fill requirements of the Polytronix Purchase Order.

12.0 First Article

A unit shall be identified and designated "First Article". It shall be representative of all like items specified in the PO. Inspection report shall be submitted upon delivery of product unless otherwise specified. Any characteristics out of specification shall be clearly identified. First Article documentation shall be according to AS9102 requirements unless otherwise authorized by Polytronix Quality Manager. The First Article unit shall be representative of the first production run or from the first production run after a two (2) year production void.

First Article Inspection Report (FAIR) is required based on change in Supplier facility location, processes, and/or materials.

Delta First Articles as defined in AS9102 are required based on modifications to the product that are documented and approved by Polytronix, Inc.

Supplier shall not ship products that do not meet all the specifications of the Purchase Order, drawings, electronic files, or other documents provided by Polytronix without prior written authorization from Polytronix Procurement or Engineering or Quality Departments.

13.0 Source Inspection

Items in this Purchase Order are subject to source inspection by a Polytronix representative, Polytronix customer or designated third party source inspector. This may include surveillance of seller's facility, equipment, procedures, and inspection data. The seller shall furnish necessary facilities, equipment, provide data and perform tests as required by applicable specifications, drawings, and test instructions

under Polytronix, Polytronix customer or designated third party source inspector observation. When requesting source inspection notify Polytronix purchasing contact at least 10 days in advance.

14.0 Calibration

Supplier shall maintain calibration system in accordance with recognized standards including but not limited to: NIST, 2ALA, ISO/IEC Guide 25, ANSI/NCL-Z540-1, Z540-3, MIL-STD-45662 and ISO10012, ISO 17025.

Supplier shall provide a calibration certificate containing, company letterhead, contact information, signature and date of person performing calibration, Cal procedure, date Cal was performed, suitable environment conditions, identification of device, current device condition (in or out of tolerance), any adjustments or repairs performed, and standards used, including Cal date, Cal due date and direct traceable reference to NIST or other international/national recognized standards.

Supplier shall maintain history of Calibrated Equipment and notify Polytronix, Inc. of any condition where the calibrated M&TE does not meet an in-tolerance reliability target of 95% at the end of their interval schedule.

15.0 Depanelization of Populated PCB Assemblies

Populated printed circuit board assemblies must be de-paneled using a procedure and/or equipment that minimize the "flex stress" on all units during the depanelization process. Sample visual inspection of the units after depanelization must not show evidence of flex damage to any components, terminations, or other features of the product.

16.0 Counterfeit Part Prevention

All parts delivered for this Purchase Order shall be new authentic parts directly from the OEM/OCM or through the OEM/OCM's authorized distribution chain. Supplier must provide documentation that authenticates traceability of the component(s) to the OEM/OCM.

- 16.1. Components that are supplied by Independent Distributors are not authorized unless first approved in writing by the Polytronix Procurement representative and/or the Polytronix Customer as required by the customer terms and conditions and/or purchase orders.
- 16.2. Suppliers will ensure that their Counterfeit Parts program meets the requirements of AS5553 (SAE Standard Counterfeit Electronic Parts; Avoidance, Detection, Mitigation, and Disposition.)
- 16.3. Suppliers will ensure that their Counterfeit Parts program meets the requirements of AS6174 (Counterfeit Material; Assuring Acquisition of Authentic and Conforming Materials.)
- 16.4. Suppliers will flow down the requirements of Quality Provision 16 to its sub-contractors and any suppliers at any tier for the performance of this Purchase Order.

17.0 Country of Origin Conflict Minerals (Dodd-Frank Act)

- 17.1. In compliance with Dodd-Frank Act all suppliers of products containing Conflict Materials as defined in Section 1502 of the Dodd-Frank Act must provide documentation that includes the Country/Smelter of origin for the specified conflict material (Gold, Tantalum, Tin, or Tungsten) or a statement that the products provided are in compliance with the Materials Conflict portions of the Dodd-Frank Act.
- 17.2. Supplier will provide Country/Smelter of Origin for all Materials or Substances listed in the Dodd-Frank Act
 - 17.2.1. Country of Origin must be listed if Gold, Tantalum, Tin or Tungsten is/are contained in the purchased item and if:

- 17.2.1.1. The country of origin of the specified material or substance is the Democratic Republic of the Congo
- 17.2.1.2. Or any of the Seven (7) countries surrounding the Democratic Republic of the Congo.

Note: submission of completed CMRT (Latest version) for products or company wide disclosure upon request from Polytronix, Inc. meets the requirement for disclosure of Country/Smelter of Origin.

NOTE: Suppliers of COTS (Commercial Off-the Shelf Items) will provide information related to the OCM to assist in compliance with Dodd-Frank Act Section 1502 when requested.

18.0 REACH Compliance

- 18.1. Supplier will provide a statement with each delivery of purchased items identifying content of any SVHC Chemicals included in the current list of Chemicals of Very High Concern as designated in the SVHC REACH list.
- 18.2. All substances contained in the material, component/part on the SVHC list that exceed the allowable limit must be documented with a REACH NOTICE in each shipment.

NOTE: Suppliers of COTS (Commercial Off-the Shelf Items) will provide information related to the OCM to assist in compliance with REACH SVHC requirements when requested.

ALTERNATE REACH NOTIFICATIONS

- 18.2.1. Supplier may place on-file with Polytronix a certification from the Supplier indicating that none of the products provided by the supplier contain REACH designated chemicals.
- 18.2.2. Supplier may also direct the Polytronix Purchasing Organization to a URL site containing the Supplier Declaration.
- 18.2.3. Supplier may include REACH Compliance statement in Certificate of Compliance if the items contain no REACH designated Substances.

19.0 RoHS Compliance

- 19.1. Supplier will designate the RoHS compliance or non-compliance status of purchased items.

ALTERNATE RoHS NOTIFICATIONS

- 19.1.1. Supplier may place on-file with Polytronix a certification from the Supplier indicating that none of the products provided by the supplier contain RoHS designated substances.
- 19.1.2. Supplier may also direct the Polytronix Purchasing Organization to a URL site containing the Supplier Declaration regarding RoHS Substances.
- 19.1.3. Supplier may include RoHS Compliance statement in Certificate of Compliance if the items contain no RoHS designated Substances.

NOTE: Suppliers of COTS (Commercial Off-the Shelf Items) will provide information related to the OCM to assist in compliance with RoHS requirements when requested.

20.0 Denied Persons/Debarred Parties/SDN

- 20.1. Supplier of the items included in this Purchase Order must not do business with Denied Persons/Debarred Parties/SDN "Denied Persons List" published by the U.S. Department of Commerce, the "Denied Parties List" published by the Department of State and the "Specially Designated Nationals" list published by the Department of Treasury, Foreign Assets Control.

21.0 Part, Service or Product Obsolescence

21.1. Obsolete Parts

- 21.1.1. When supplier has information that a product or part purchased on the current purchase order or previous purchase orders are scheduled to be obsolete, or are at the end of the product lifecycle, the supplier will, within five (5) business days notify Polytronix, Inc.

buyer of this information indicating that the part or product may not be available in the future.

21.2. Lifetime-buy opportunities

21.2.1. When the supplier has information that parts or products are being phased out under a lifetime buy condition the supplier will notify the Polytronix Purchasing Department of the lifetime buy status within five (5) business days of possessing the information.

22.0 QPL Military Designated Parts

22.1. For any parts or materials designated as QPL on the Purchase Order supplier will provide parts or materials only from QPL authorized sources as identified on the ASSIST Product Database.

<https://assist.dla.mil/> or <http://quicksearch.dla.mil/>

22.2. If QPL designated items are not available from authorized/approved QPL sources supplier must have written approval from Polytronix to provide item from any other source.

23.0 Supplier Contribution to Product Safety

23.1. Supplier shall ensure that all products provided by Supplier meet all safety requirements of the product supplied including, but not limited to:

23.1.1. Notification of any hazardous contents

23.1.2. Appropriate documentation (SDS/MSDS documents)

23.1.3. Appropriate hazardous warnings and/or instructions for safe use

24.0 ITAR Documentation and Parts Restrictions

24.1. Purchase Orders for parts or services for items identified as ITAR shall not be sub-contracted to any organization that is not registered with the United States Department of State as required by International Trade in Arms Regulations (Under ITAR 22 CFR §122.1, parties that manufacture, export or temporarily import “defense articles” or furnish “defense services” are required to register with the Directorate of Defense Trade Controls (DDTC) within the State Department.)

25.0 Chemical Shelf-life

25.1. Chemicals must have a minimum of 80% of the manufacturer’s shelf-life remaining when the product is received by Polytronix.

26.0 Government Rated Purchase Orders

26.1. Materials, components/parts, and/or services designated with a Government Rating must be given Government Rated priority at each work area or process area if delivery will not meet the required delivery schedule.

26.1.1. DPAS requirements must be included on the purchase order and flowed-down to sub-tier suppliers.