



## Complete Listing of Giga-tronics/Microsource PO QA Clauses

### P1 Certificate of Compliance

- Certificates of Compliance should be made available by the PO QA Clause for supplier shipment of goods conforming to the applicable material and/or process specifications. The certification shall as a minimum contain the following:
  1. Seller's name and address
  2. Date certification issued
  3. Buyers purchase order number
  4. Governing specification, when applicable
  5. Part number (Sellers and/or Buyers)
  6. Lot/serial number/ or model number (Sellers), when applicable
  7. Signature of an authorized QA Representative
  8. MIL specification, when applicable

### P2 Domestic Specialty Metals

- Metal fabrication must comply with DFARS clause 252.225.7014 for Domestic Specialty Metals. DoD's interpretation of this specialty metals clause (DFARS 252.225-7014) is that it prohibits the contractor (including its suppliers at every tier) from incorporating into military parts, components, and/ or end item deliverables "specialty metals" (identified in the clause, including titanium and stainless steel) which have been melted outside the United States, its possessions, or Puerto Rico, unless certain limited exceptions set forth in the clause or DFARS Subpart 225.7002-2 apply. One such exception is for specialty metals melted in a qualifying country or incorporated into an article manufactured in a qualifying country. Those countries are listed at DFARS 225.872-1(a) or (b). Since the United States is not listed as a qualifying country, DoD does not consider it to be a qualifying country. Even if a qualifying country exception applies, the source for specialty metals melted outside the United States may also have to be listed in an applicable Qualified Products List (QPL), such as set forth in Douglas Material Specification (DMS) 2201, "Procurement From Foreign Sources – Metallic Raw Material". Please check your purchase order carefully for any such requirement. If your purchase order contains this requirement, you must comply with its provision. If your organization is issued a purchase order with specialty metals clause, compliance to this requirement is required and this includes your sub-tier suppliers to ensure that no foreign melted specialty metals are utilized to fabricate any sold product to Giga-tronics from a non-qualifying country. If your organization needs further information and/or assistance on this matter, then please contact Giga-tronics Purchasing Department.

### P3 SCD Revision Controlled Documentation

- Giga-tronics/Microsource supplied SCD (Specification Control Document) shall be used by the supplier and no product changes are to be made to this SCD without an approved Giga-tronics deviation. Product is to be built to the current supplied revision noted on the SCD. All SCD built product shipped shall be properly identified with the SCD part number and the current revision number.

### P4 No Deviations, Process Changes or Repair to Purchase Product Without Buyer's Approval

- As set forth on the body of the PO, as stated, there shall not be any product deviations, process changes or repairs without Buyer's approval.



P5 Part Number or Revision Referenced on Product Ordered

- Seller to reference part number or revision on all product ordered.

P6 Seller to Maintain an Effective Quality System

- Seller shall fully incorporate all necessary measures and controls to assure a consistent quality controlled product.

P7 Source Inspection

- Giga-tronics/Microsource reserves the rights for Source inspection with confirmation between Buyer and Seller.

P8 On-Site Audits & Surveys

- Giga-tronics/Microsource reserves the rights for performing periodic on-site supplier audits and surveys.

P9 Supplier Flow Down to Sub-tier Suppliers

- Supplier flow down to sub-tier suppliers needs to be made available when specified on the body of the PO for key characteristics.

P10 Supplier Record Retention

- All record retention associated with the product ordered needs to be maintained, including inspection test records or for any calibration.

P11 Special Testing Requirements

- Special testing requirements to be supplied when specified on the body of the PO such as test samples required, 1<sup>st</sup> articles, etc.

P12 Supplier Non-Conformities

- Seller agrees to respond to all non-conformities, including CAR's (Corrective Action Report) with "Root Cause".

P13 Acceptance Test Procedure

- Acceptance test procedure to be submitted for approval when specified on the body of the PO. Acceptance testing shall be performed prior to shipment. Acceptance testing shall be performed to the seller's prepared Acceptance Test Procedure approved by Giga-tronics/Microsource. Seller shall show evidence of formal Giga-tronics/Microsource approval of the test procedures, when requested.

P14 Test Data

- Test data in accordance with specification requirements shall be available for product shipments. Data shall include, as a minimum, results of the specific testing and objective evidence that the test data required is valid.

P15 Transportation Packaging

- Proper transportation packaging shall be accomplished for maximum protection against physical damage and shipment damage.



P16 Quality/Delivery/Service

- Giga-tronics/Microsource monitors supplier's "Quality/Delivery/Service" and expects the same from all of our suppliers. Suppliers are expected to maintain good quality standards, on-time delivery and maintain good service with competitive cost for product ordered.

P17 No unauthorized deviations to PO's

- No deviations to the Giga-tronics/Microsource PO without a written purchase order amended notice.

P18 QUF03019 "Statement of Work"

- The seller shall comply with the Giga-tronics/Microsource QUF03019 "Statement of Work". This QUF03019 "Statement of Work" is utilized by Giga-tronics/Microsource contract manufacturers (CM) and Giga-tronics Turnkey suppliers.

P19 Optical Inspection

- Automatic Optical Inspection System (AOI) as per TR7100EP optical diagnostic system or the equivalent shall be used when specified on the body of the PO.

P20 (ICT) Performed In-Circuit Test

- (ICT) Performed In-Circuit Test, using Giga-tronics/Microsource Test Fixtures/Programming for Giga-tronics/Microsource Printed Circuit Assemblies and ICT test data shall be supplied with product shipments.

P21 Soldering Workmanship Standards

- Soldering Workmanship standards shall comply to the latest revision of ANSI/IPC-A-610, Class III and to Giga-tronics/Microsource SCD specifications.

P22 Rework, Modifications and Repair of Electronic Assemblies

- Rework, Modification and Repair of electronic assemblies shall to the latest revision of ANSI/IPC-7711/-7721 and to Giga-tronics/Microsource SCD specifications.

P23 Hybrid Workmanship Standards

- Hybrid Workmanship assembly standards shall comply to the latest revision of MIL-STD-883, Method 2032, 2017 & 1017 and to Giga-tronics/Microsource SCD specifications.

P24 Static Sensitive Product

- Static Sensitive Products shall be in compliance to the latest revision of ESD MIL standard MIL-STD-1686.

P25 Special Packaging

- Special packaging shall be supplied when specified on the body of the PO such as requested Waffle packaging, Gel packaging, etc.

P26 Compliance to the Approved Manufacturers Part Number

- Seller must comply to the Approved Mfg. part number when specified on the body of the PO.



P27 Shelf Life Product

- Shelf Life products ordered shall have at least two-thirds of un-expired life remaining when received at Gigatronics/Microsource.

P28 Counterfeit Material

- Seller warrants against counterfeit material being sold to Buyer (*Giga-tronics/Microsource*) for a 1 year period covered from the date of the receipt. The counterfeit terms includes all material altered or misrepresented from the original authorized source. Seller shall immediately notify the Buyer when the Seller becomes aware or suspects that it has furnished counterfeit material. Seller shall promptly replace confirmed counterfeit material with the genuine material. This clause also includes sub-tier flow down.

P29 Independent Distributors

- Preferred suppliers are to have IDEA (*Independent Distributor Electronic Association*) certification & ISO certification. Seller is to warrant against any counterfeit or no pulls/no used parts. Giga-tronics may request the following Vendor criteria conditions when stipulated in the PO line Item covering: component x-ray required, de-lidded/de-capped, submit photographs on parts being supplied, submit part samples for Giga-tronics/Microsource electrical testing & component date code restrictions.

P30 QUF17026 “Statement of Work (AS9100 Programs)”

- This Statement of Work takes precedence over QUF03019 when noted in the body of the PO. This QUF17026 “Statement of Work” is utilized by Giga-tronics/Microsource contract manufacturers (CM) and Electronic Turnkey suppliers.

P31 Purchase Order Exclusivity

- Giga-tronics/Microsource Purchase Orders will take precedence over all other requirements. Unless noted on the PO then the Purchase Order controls all procured product requirements.

P32 CAM File Precedence

- CAM file(s) supplied with PO take precedence over the drawing. In the event of a conflict between the CAM file(s) and the drawing, the supplier shall notify Giga-tronics/Microsource Purchasing.

P33 Raw Material Certifications

- Supplier shall maintain a copy of all procured raw material and plating/finishing certifications from sub-tier suppliers. Such certifications shall be available for review upon request by Giga-tronics/Microsource, OR shall be furnished to Giga-tronics/Microsource if the PO includes a First Article requirement. Certifications shall include material description and specification. This requirement does not apply if Giga-tronics/Microsource has supplied consigned material for use by the supplier.

P34 Serial Number Labeling On Printed Circuit Boards

- Supplier shall supply serial number labeling on production printed circuit board assembly units and utilize the 1<sup>st</sup> alpha sequence as the suffix to the name of the supplier & then use the next two numerical digits as the year & then the next two numerical digits as the week, followed by four sequential numerical numbers. The serial number labeling shall be located next to the assembly part number labeling on the board unless otherwise specified on the supplied drawing.