



1.0 PURPOSE AND SCOPE

This document provides general quality requirements and instructions for suppliers, which may be made a part of purchase orders, either directly or by reference.

IMPORTANT

THIS DOCUMENT DESCRIBES QUALITY REQUIREMENTS, WHICH MAY BE IMPOSED ON A PURCHASE ORDER WITH YOUR COMPANY. THESE REQUIREMENTS STAND ALONE AND ARE NOT DESCRIBED IN ANY OTHER DOCUMENT. THEREFORE, IT IS IMPORTANT THAT THIS DOCUMENT BE THOROUGHLY REVIEWED BY THE COGNIZANT PERSONNEL WITHIN YOUR COMPANY TO ASSURE THAT THESE REQUIREMENTS ARE UNDERSTOOD AND ADDRESSED.

2.0 BUYER & SUPPLIER REQUIREMENTS (Information) SECTION

2.1 Purchase order

In this document the term "Purchase Order" includes any purchase order, whether written or otherwise assigned, as well as Subcontracts.

2.2 Point-of-contact

The assigned buyer is always your point of contact. Any questions, problems, or information should always be directed to the buyer. Do not accept any changes to the technical and quality requirements unless authorized in writing by the buyer.

2.3 Notification of use of subcontractor

If a subcontractor is used to provide any portion of the product or service being purchased by Millennium Microwave Corporation you must notify the buyer. Notification must include the name of the sub-tier supplier and the product or service being accomplished on your behalf.

3.0 QUALITY SYSTEM REQUIREMENTS

Your purchase order may contain quality codes, which specify the level of quality assurance required for the product or service being purchased. If you have a quality system, which complies with Level I, it also satisfies Levels II and III by definition. Likewise, if your quality system complies with Level II it also satisfies Level III.

3.1 General Requirements

Purchase orders you receive from Millennium Microwave Corporation may contain numerical Quality Requirement Codes (may also be stated as Quality Codes). You are required to comply with all the codes listed in the purchase order. An explanation of these codes is contained in this document. If you agree to accept a verbal order without a written purchase order, it is your responsibility to ensure that the buyer informs you of the applicable Quality Requirement Codes for that purchase.

3.1.1 Requirements for Distributors



The technical and quality requirements of the purchase order apply to both you and the manufacturer of the material. As the direct supplier to Millennium Microwave Corporation and the representative of the manufacturer, you are responsible for compliance with all purchase order requirements.

3.1.2 Non-conforming material

Millennium Microwave Corporation will not accept material that does not fully comply with the drawing and specifications for form, fit, function, interchangeability or appearance (when applicable) unless authorized by the Millennium Microwave Corporation buyer in writing. Suppliers shall have a system for Corrective Action and Preventive Action that is compliant with the requirements of ISO900. In the event of rejected material the Supplier may be required by Buyer to provide evidence of Corrective Action.

3.1.3 Records

All records of inspections, processes, and tests performed on products destined for Millennium Microwave Corporation shall be maintained complete and accurate for a period of five years, or as specified in the purchase order. These records shall be available for review by Millennium Microwave Corporation and copies shall be furnished upon request.

3.1.4 Right of entry

At times it may be necessary for Millennium Microwave Corporation and our customers to visit supplier facilities and/or their sub-tier suppliers for the purpose of verifying contract compliance and product conformity. Arrangements for such visits will be coordinated through the buyer.

3.1.5 Source Inspection

When source inspection by Millennium Microwave Corporation is required, the supplier is responsible for inspecting and presenting a fully conforming product to the Millennium Microwave Corporation Quality representative. The supplier shall provide adequate work area, a current copy of the purchase order, packing slips, all applicable drawings and specifications, required certifications/test reports, and all necessary inspection equipment that the Millennium Microwave Corporation Quality representative may require.

3.1.6 Receiving inspection requirements

Document QP-OP8.4-0003F1 (Parts and codes) defines the internal Millennium Microwave Corporation incoming inspection and purchasing requirements to ensure adherence to these Quality Requirements for Suppliers.

3.2 Quality System Requirements (Listed below)

LEVEL 0

QUALITY SYSTEMS REQUIREMENTS

Sales Office Only



LEVEL 1

QUALITY SYSTEM REQUIREMENTS

You are required to maintain an ISO 9001 Certification. Compliance is subject to audit by Millennium Microwave Corporation.

LEVEL 2

QUALITY SYSTEM REQUIREMENTS

You are required to maintain an ISO 9001 (Production, Installation and Servicing) Certification. Compliance is subject to audit by Millennium Microwave Corporation.

LEVEL 3

QUALITY SYSTEM REQUIREMENTS

You are required to maintain an ISO 9001(Final Inspection and Test) Certification. Compliance is subject to audit by Millennium Microwave Corporation.

LEVEL 4

CALIBRATION SYSTEM

You are required to maintain a Calibration System that complies with the General Requirements of this document and the requirements of ISO 10012-1 (ANSI/NCSL Z 540-1 is acceptable alternate system). Compliance is subject to audit by Millennium Microwave Corporation.

LEVEL 5

ENGINEERING SERVICES

Services only.

LEVEL 6

SOFTWARE QUALITY PROGRAM

ISO / IEC 15504 Compliance

LEVEL 7

DISTRIBUTOR

Distribution Only

LEVEL 8

QUALITY SYSTEM REQUIREMENTS

You are required to maintain a Quality System that addresses all the general requirements of this document and elements equivalent of Level I. Compliance is subject to audit by Millennium Microwave Corporation.

LEVEL 9

QUALITY SYSTEM REQUIREMENTS



You are required to maintain an Inspection System that addresses all the general requirements of this document and elements equivalent of Level II. Compliance is subject to audit by Millennium Microwave Corporation.

LEVEL 10

QUALITY SYSTEM REQUIREMENTS

You are required to maintain a documented Quality System that addresses all the general requirements of this document and elements equivalent of Level 3. Compliance is subject to audit by Millennium Microwave Corporation.

LEVEL 11

SERVICES

Delivery/service of an intangible product: (technical support, consulting, freight, training, etc).

3.3 Quality Assurance Requirements Codes

The Quality Requirement Codes in paragraph 3.4 are applicable when listed within a Millennium Microwave Corporation purchase order or subcontract. These requirements shall be in addition to, and not in derogation of, other purchase order requirements.

3.4 Quality Assurance Requirements Codes are listed below:

1. The supplier shall maintain a Quality Program in compliance with the Level 1 or Level 8 Quality System Requirements of Millennium Microwave Corporation document QP-OP8.4-0003 "Quality Requirements for Suppliers".
2. The supplier shall maintain an Inspection System in compliance with the Level 2 or Level 9 Quality System Requirements of Millennium Microwave Corporation document QP-OP8.4-0003 "Quality Requirements for Suppliers".
3. The supplier shall maintain a Quality Control System in compliance with the Level 3 or Level 10 Quality System Requirements of Millennium Microwave Corporation document QP-OP8.4-0003 "Quality Requirements for Suppliers".
4. The supplier shall furnish to Millennium Microwave Corporation for approval one copy of the supplier's test procedures identified by a number and, if applicable, a revision number and date of revision at least fifteen days prior to testing the first article to be delivered. The test procedure shall be in sufficient detail to demonstrate compliance with the applicable specification, showing test equipment and test configuration.
5. One copy of test data referencing the purchase order number, supplier's name and address and/or laboratory's name and address, part number, part name, serial numbers, date and actual test data, must accompany each shipment to be delivered. An authorized representative of the supplier's Quality Department shall validate this report.



6. Materials having definite characteristics of quality degradation or drift with age and/or environment shall be marked, in accordance with MIL-STD/HDBK-129, with the useful life remaining and storage environmental requirements.
7. The supplier will furnish one copy of the chemical and physical analysis of the actual laboratory test, identifiable with the material, accomplished by the original supplier with each shipment.
8. The supplier shall furnish a copy of the appropriate NDI Certificate for any NDI Test required by the drawing.
9. The supplier shall furnish x-ray film identifiable to each part and one copy of the x-ray lab report. Multiple views of large parts must be identified to define locations of each view.
10. Items on P.O. procured as a kit, such as connectors, fasteners, molded inserts that are shipped as pieces that make up the Part Number ordered, shall be packaged together such that one package equals quantity of one Part Number ordered.
11. The supplier **shall have on record** a Certificate-of-Compliance (C-of-C) for each shipment. The C-of-C shall contain, as a minimum, the specifications and/or drawing number, revision level, special processes (as applicable), the name of the manufacturer, the lot number, batch number, date or serial number, purchase order number (and item number when applicable), and a factual statement that inspection/test data is on file at the supplier's facility available for review by Millennium Microwave Corporation upon request. Figure 1 is provided as an example and may be used at the supplier's option. This C-of-C is not required on each shipment but shall be provided to Millennium upon request.
12. The supplier **shall provide** a Statement of Quality with **each** shipment. The Statement of Quality requires a Certificate-of-Compliance with signature of Quality management or authorized personnel). This is a factual Certificate of Compliance that will include at a minimum the name of manufacturer (and location), lot/batch numbers (as applicable), date/serial numbers (as applicable), purchase order number (and item number when applicable), specification number and revision level, inspection/test data (as applicable) and any exceptions or clarifications to the requirement. Figure 1 is provided as an example and may be used at the supplier's option.
13. The supplier shall incorporate commercial standard practices for the preservation and packaging of all articles applying to this purchase order and shall identify each package permanently and legibly with the purchase order number, manufacturer's name, date shipped, and packing sheet number. Fragile or delicate parts shall be packaged in a manner that will minimize potential damage due to handling.
14. Government inspection is required prior to shipment from your plant. Upon receipt of this order, promptly notify the Government representative who normally services your plant so that appropriate planning for Government inspection can be accomplished.



15. The Government has imposed Selective Evaluation on this order. During performance on this order, your quality control or inspection system and manufacturing processes are subject to review, verification, and analysis by authorized Government representatives. Government inspection or release of product prior to shipment is not required unless you are otherwise notified.
16. Millennium Microwave Corporation reserves the right to perform source inspection at the supplier's facilities prior to shipment. Inspection and/or test of the articles defined in the purchase order shall be performed by the supplier, and shall be subject to witness by Millennium Microwave Corporation. The inspection or test shall demonstrate compliance with the applicable drawings and/or specifications. Millennium Microwave Corporation Purchasing Department shall be notified at least three days prior to acceptance inspection or test to allow for arrangements for a Quality Representative to be present.
17. The supplier shall request, in writing, Millennium Microwave Corporation approval of any changes in part number or nomenclature that may differ from purchase order information prior to shipment.
18. Materials that are volatile or toxic shall be properly contained in accordance with applicable Code of Federal Regulation. The containers will be plainly marked as to contents with appropriate warnings, precautions, instructions, and storage conditions. The use of mercury is excluded.
19. All material must be identified by a part number that is permanently and legibly affixed directly to the surface of each article. In the event this is not possible due to physical size or nature of material, an identification tag will be securely affixed to each article, or if articles are packaged in individual or multiple containers, the containers must be identified with the part number.
20. Pre-Cap Inspection is required for articles as defined in the purchase order. Supplier shall notify the buyer at least 3 working days in advance to allow for arrangements for inspection.
21. Environmental Test Data: The supplier shall furnish with each shipment and affixed to the product/material, a copy of the environmental test data containing; the type of test(s) performed, the required test limits and measured values, the required specification(s), Purchase Order number, part number, and lot/batch number (if applicable) of the material.
22. Electrostatic Sensitive Devices shall be packaged in accordance with the current revision of MIL-STD 1686, and labeled in accordance with MIL-STD-129.
23. The original manufacturer shall maintain a Calibration System in compliance with the Level 4 Calibration System requirements of Millennium Microwave Corporation document QP-OP8.4-0003 "Quality Requirements for Suppliers".



24. The first article manufactured to the specified configuration will be 100% inspected by the supplier for conformity to drawing and purchase order specifications. The first article data (containing both required characteristic values and measured values with a record of the equipment used and asset identification of that equipment) will accompany all shipments of that material when required by contract.
25. Certificate of initial calibration is required.
26. The supplier shall maintain a software development and quality program in compliance with IEEE/EIA12207.
27. The supplier shall maintain a software development and quality program in compliance with RTCA/DO-178B.
28. The supplier shall maintain a software development and quality program in compliance with Level III or Level XI Quality System requirements.
29. Microcircuit Components: The supplier shall provide, and comply with, the Certification and Traceability requirements of MIL-PRF-38535, when furnishing "Microcircuit Components", for both linear and digital devices with the DTL, non-Schottky TTL, ECL, Schottky TTL, Linear, Hybrid, and MOS technologies.
30. The supplier shall furnish, with each shipment, a copy of heat treat records for each lot/batch.
31. The supplier is required to meet the special flammability requirements as specified in the applicable drawing, specification, and/or purchase order.
32. The supplier shall furnish, with each shipment, a copy of the manufacturing work order/traveler for each part delivered. The work order shall detail the manufacturing sequence including all (in-process and final) inspection steps indicating supplier acceptance. When work orders are not available, the supplier shall furnish a copy of all inspection records including, but not limited to, first article records, log sheets, acceptance tags as applicable for each part delivered.
33. The supplier's facility, quality system, and products are subject to verification, inspection, audit, and investigation by Millennium Microwave Corporation's customer. Such activities at the supplier's facilities will be performed jointly with, and arranged by Millennium Microwave Corporation representatives.
34. Each container of fasteners shall be conspicuously marked with the number of the lot from which such fasteners were taken. The supplier shall provide one Certificate of Conformity for each part number contained in a fastener shipment. This document shall contain as a minimum the supplier's name, the standards and specifications, name of the manufacturer, lot number, purchase order number, item number when applicable, and a factual statement



that a copy of a written certificate by the Manufacturer is on file at the supplier's facility available for review by Millennium Microwave Corporation upon request.

The Manufacturer's certificate shall state that -

(1) the fasteners have been manufactured according to the requirements of the applicable standards and specifications and have been inspected and tested by a laboratory,
(2) That an original laboratory testing report is on file with the manufacturer and available for inspection.

35. Toxicity Declaration: The supplier shall provide a certification with each shipment and affixed to the product/material stating, "This material contains no wool, polyvinyl chloride (vinyl or vinyon), modified aramid (Durette), phosphorous based fire retardant treated cotton, or polyvinyl chloride coated fabrics".
36. Suppliers furnishing printed wiring boards shall meet the requirements of IPC-6012 Class 2. Suppliers furnishing microwave circuit boards shall meet the requirements of IPC 6018 Class 2.
37. Solderability testing of components leads to J-STD-002 is required for this order. A certificate of compliance for this test is required and shall accompany shipment.
38. Material Safety Data Sheet: The supplier is responsible for providing a copy of the Material Safety Data Sheet (MSDS) for each shipment as defined by OSHA (29 CFR 1910.1200).
39. A validated test report shall be required for this raw material.
40. Counterfeit Parts Mitigation

The Supplier shall:

Develop and implement a counterfeit electronic parts risk mitigation process that documents the methods used for avoidance, detection, risk mitigation, disposition and reporting of counterfeit electronic parts. The process shall be compliant with the requirements of AS5553 or AS6081.

Ensure that only new and authentic products are delivered to Millennium Microwave Corporation and that they carry the full Original Component Manufacturer's warranty.

"Authorized (Franchised) Distributor covenants, warrants, and represents that it has effective contractual agreements in place with each manufacturer whose product(s) it is procuring to sell to Millennium Microwave Corporation.

Only ship product to Millennium Microwave Corporation that have been procured directly from the manufacturer



Not ship products to Millennium Microwave that has been procured from any other source without prior written consent from Millennium Microwave.

Supplier shall maintain a method of item traceability that ensures tracking of the supply chain back to the Original Component Manufacturer.

41. Suppliers of products with Conflict Minerals (Tin, Tantalum, Tungsten and Gold) must comply with Dodd-Frank Act 2010 Section 150 and Millennium Microwave QP-OP8.4-0009 (Conflict Minerals Mitigation Policy)
42. Suppliers (and their employees) shall be aware of their contribution to product or service conformity; their contribution to product safety; and the importance of ethical behavior.
43. Supplier shall provide a signed copy of the Millennium Source Control Drawing (SCD) that confirms Supplier's agreement and compliance to the Millennium SCD.

Figure 1 Certificate of Compliance

This form can be used when the Millennium Microwave Corporation Purchase Order requires Quality Code 12.

TITLE

Specifications/Drawing Number:

Revision Level:

Manufacturer (Name & Cage Code):

Lot Batch Number (when applicable):

Date:

Serial Number (when applicable):

Purchase Order and Item Number:

Exceptions and clarifications:

Signature of authorized personnel (when applicable)