

Real Time Logic, Inc.

12515 Academy Ridge View, Colorado Springs, CO 80921
Phone: (719) 598-2801 Fax: (719) 598-2655
www.rtlogic.com

 Q1 Quality System Requirements

The supplier shall implement and maintain a quality management system that complies with ISO 9001:2008 or an equivalent system that provides adequate inspection to verify that the product supplied is in full compliance with the purchase order requirements and all applicable specifications. Compliance with these requirements are subject to audit by RT Logic The supplier shall flow down to sub-tier suppliers the applicable requirements in the purchasing documents, including key characteristics where required.

 Q2 Right of Entry

RT Logic reserves the right to review control methods and inspect material included in this order at the supplier's plant and at any sub-tier plant. Access rights shall be extended to our customer and Government or Regulatory Agency representatives.

 Q3 Material Review Board (MRB) Authority

The supplier shall notify RT Logic Quality Assurance of any "use as is" or "repair" non-conformances to the requirements of this order. "Use as is" and "repair" dispositions shall be submitted to RT Logic prior to implementation. Suggested dispositions, identification of the cause of non-conformance, and the corrective actions taken shall be submitted in writing. Further work shall not be performed until directed by RT Logic in writing.

 Q4 Certificate of Conformance (CofC)

A Certificate of Conformance shall be provided with each delivery certifying the ordered part meets all requirements of the Purchase Order or subcontract. The CofC will be signed by the Quality Manager and include the methods used to ensure compliance.

 Q5 Configuration Management

Supplier shall maintain a Configuration Management system that effectively controls the product and/or process baselines. RT Logic may elect to review the effectiveness of the suppliers Configuration Management system.

Supplier shall notify the buyer immediately of any changes to the characteristics or configuration of the product and/or processes used to manufacture the product. When required, supplier shall obtain written approval of changes from RT Logic.

 Q6 ESD Program

The supplier shall have procedures for protection of ESD sensitive devices during all phases of handling, packaging, storage and testing. The supplier's ESD program shall be in accordance with MIL-STD-1686, MIL-HDBK-263, ANSI/ESD S.20.20, or RT Logic approved equivalent.

 Q6A ESD Labeling

Labels shall be affixed to each package or container identified as "ESD Sensitive".

 Q6B ESD Handling and Packaging

All electronic component parts shall be packaged such that they are kept from detrimental physical contact with any other component. Only ESD approved protective material will be used. Pink poly is not to be used in packaging ESD sensitive material. Tape without an ESD symbol will not be used to seal ESD bags.

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 Q9 Soldering

All soldering will be accomplished and inspected by operators certified to J-STD-001 and IPC-A-610 or other standards required by the drawing or Purchase Order. Evidence of training shall be provided to RT Logic, upon request.

 Q10 Packaging/Handling

When specific packaging has not been referenced or defined in the Purchase Order and/or drawing the supplier shall package parts, components, materials, assemblies, etc. in a manner as to prevent damage during the course of shipment and subsequent storage at RT Logic.

 Q11 Limited Shelf Life Material

The vendor shall have an established and documented Self Life Control program that ensures time sensitive material used in the production of parts identified in the Purchase Order are within their useful life span. All expired Shelf Life material will be promptly removed from the production floor.

 Q12 First Article Inspection

A First Article Inspection Report shall be required when the first production units are manufactured. The report shall include all drawing characteristics and notes, required tolerance range, actual measurement results, and where physical testing is required, the results of the test(s).

 Q13 Source Inspection

RT Logic will inspect the material submitted on this purchase order at the supplier's facility. Source inspection approval or acceptance by the RT Logic Quality representative shall not constitute final approval or acceptance by RT Logic of the items covered by this purchase order, nor shall it relieve the seller of their responsibility to furnish acceptable product.

 Q14 Government Inspection

Government inspection is required prior to shipment from your plant. Upon receipt of this order, promptly notify the Government representative who normally serves your plant.

 Q15 Test Reports

Each shipment must be accompanied by one (1) legible and reproducible copy of actual test results identifiable with test parameters and product submitted. These reports must contain the Test/Inspection Stamp of the individual performing the task, or the signature and title of the authorized representative of the agency performing the test.

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 Q16 Special Process Validation

A special process is defined as a process that cannot be completely verified through inspection or non-destructive testing; therefore the process itself must be verified/validated prior to performance. Training is also an important consideration related to verifying special processes.

The vendor shall provide process control and validation information related to any special processes used, when requested. Special Processes can include:

- Soldering
- Silk-screening
- Marking
- Chemical treatment of metals
- Painting
- Plating

 Q17 Quality Records (Applies to all Purchase Orders)

All Quality Records (including Test Reports) are to be legible, reproducible, and identifiable to the purchase order. Quality Records are to be stored and maintained in such a way that they are readily retrievable in facilities that provide a suitable environment to minimize deterioration or damage and to prevent loss. This applies to our suppliers and any lower-tier suppliers. Retention period for Quality Records are 3 years unless otherwise specified. RT Logic, our customers, Government, or Regulatory Agency representative shall have access to review quality records as they pertain to this order.

 Q18 Calibration

All test equipment used for acceptance of deliverable products under this Purchase Order are in calibration and are so certified by a recognized laboratory prior to acceptance testing. The certifying laboratory shall comply with ANSI/ASQ Z540.1 or ISO 10012, as well as standards traceable to NIST, is required. If a Z540.3 calibration is required by contract, the calibration vendor will be notified.

 Q19 Counterfeit Parts

1. The supplier shall maintain a documented Material Authenticity program that has as its goal the avoidance, detection, mitigation and disposition of counterfeit parts.
2. The Supplier shall not misrepresent used or reclaimed parts as new.
3. Supplier shall comply with original manufacturer's handling, storage and shipping procedures
4. Supplier shall provide to the buyer all necessary certificates of conformance and acquisition traceability (CoC/T) to the OEM/OCM.
5. The Supplier shall be subject to liabilities and penalties associated with providing fraudulent/counterfeit product Supplier shall maintain a documented system to ensure no delivered parts are counterfeit.
6. The supplier shall be a member of the Government/Industry Data Exchange program (GIDEP) to be used for monitoring potential Counterfeit parts and reporting suspect counterfeit parts.

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 Q20 Marking

Supplier shall clearly mark parts using vendor standard processes or RT Logic specified processes. Unique serial numbers will be assigned, as required.

 Q21 Receiving Inspection

Any and all material (i.e. materials (raw stock), parts, components, assemblies) shipped against this Purchase Order is subject to Receiving Inspection at RT Logic.

 Q22 Returned Material Authorization (RMA)

Supplier shall establish and maintain an RMA system that ensures prompt repair and return of defective product returned to the supplier. The supplier shall provide repair data to RT Logic with each repaired item.

 Q23 General Workmanship

Unless otherwise specified (i.e. drawing requirements, specifications, purchase order) material shipped against this Purchase Order shall be free of dents, gauges, burrs, scratches, sharp edges, foreign matter, or any other evidence of poor workmanship standards that shall create a condition that renders said part unsatisfactory for its intended use.

 Q24 Flow Down Requirements

The Supplier shall flow down any critical Quality Clauses, such as ESD and Quality System, to sub-tier suppliers that are performing critical parts of the work.

 Q25 Specialty Metals

The supplier shall certify that items being delivered conform to DFARS 252.225.7014 (Deviation 2008-00002) and its Alternate I (Deviation 2008-00002), requirements for compliance of Specialty Metals

 Q26 RoHS

When specified on the purchase order: The supplier shall certify that items being delivered conform to the EU RoHS directive. The EU RoHS directive, also known as the "lead-free" directive, identifies six materials that must be virtually eliminated from a great deal of electronic equipment before it's shipped into the EU after 1 July 2006. These materials include Lead (Pb), Hexavalent Chromium (Chromium IV), Cadmium, Mercury, Polybrominated Biphenyls (PBBs), and Polybrominated Diphenyl Ethers (PBDEs).

 Q27 Quality Inspections

All deliveries under this Purchase Order will be 100% inspected by an independent Quality Assurance representative. Records of these inspections will be made available upon request.

 Q29 Compliance to and Control of Drawings

This Purchase Order or Subcontract requires adherence to attached drawings or specifications. Verification of compliance to the required drawings or specification must be shown.

 Q30 Compliance with a Statement of Work (SOW)

Requires adherence to a Statement of Work (SOW)

 Q31 Control of Customer (RT Logic) Supplied Material or Government Property (GP)

The vendor shall have a documented process detailing how CFE and/or GFE are controlled.

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 Q32 Pure Cadmium, Zinc, or Tin

All constructions and finishes containing pure cadmium, or pure zinc, are prohibited. In addition, constructions and finishes containing pure tin are prohibited unless they contain a minimum of 3 percent lead (Pb) by weight

 Q33 Calibration Certificate Required

A current calibration certificate will accompany all shipments containing test equipment. Certificates will include the standard the lab operates to (17025, Z540.1, Z540.3), the producer used to perform the calibration, and the equipment used for the calibration.