

Supplement to Purchase Order Quality Clauses

Section A: For Commercial/Industrial Product

<p>A1: Standard Part</p> <p>Q01 Workmanship Electronic materials and workmanship shall comply with the requirements of J-STD-001 and IPC-A-610, class 2, current version. For cable assembly shall comply with the requirements of IPC-A-620, class 2, current version.</p> <p>Q02 Certificate of compliance The items or services being shipped or being performed against this order must be accompanied by a Certificate of Compliance that assures full conformity with 1) RoHS Compliance (if part compliance to RoHS) 2) Applicable drawings, specifications, and terms and conditions of this order.</p> <p>Q03 CoC standard information OSI part number, Purchase Order number, Manufacturer Name, Manufacturer Part number, Lot number or Date Code.</p> <p>Q04 Physical and chemical analysis Physical and/or chemical analysis report to be supplied with each shipment. (if requested by OSI)</p> <p>Q05 Age control Manufacturing date, shelf life and/or expiration date required. Max. 2 years for IC and 5 years for other parts with min. 6 months left on shelf life.</p>	<p>Q06 Static sensitive material All integrated circuits and/or electrostatic sensitive devices must be delivered enclosed in electrostatic shielded tubes, sleeves, or other suitable protective materials. External packaging shall also have caution labels or marking indicating the contents contain electrostatic sensitive devices.</p> <p>Q07 Configuration control requirements To assure uniform quality and material configuration, no changes in materials, construction, source or performance shall be made for the item(s) covered by this order without prior approval from OSI. The supplier is expressly prohibited from supplying nonconforming material to OSIE without advance approval. Material Review Board review and disposition of nonconforming material shall be the sole responsibility of OSIE.</p> <p>Q08 MSDS requirement (Applicable for Chemical) The current MSDS for material supplied is required for each shipment.</p> <p>Q09 Certificate of origin Each shipment is to be accompanied by a document which declares the country of origin on forms acceptable to the originating country's regulations.</p>
<p>A2: Non Standard Part A2.1: PCB</p> <p>Q01 Quality system requirements The supplier shall establish and maintain a quality system that conforms to the requirements of ISO 9001</p> <p>Q02 Workmanship Electronic materials and workmanship shall comply with the requirements of J-STD-001 and IPC-A-600, class 2, current revision.</p> <p>Q03 Certificate of compliance The items or services being shipped or being performed against this order must be accompanied by a Certificate of Compliance that assures full conformity with 1) RoHS Compliance (if part compliance to RoHS) 2) Applicable drawings, specifications, and terms and conditions of this order.</p> <p>Q04 CoC standard information OSI part number, Purchase Order number, Manufacturer Name, Manufacturer Part number, Lot number or Date Code.</p> <p>Q05 Physical and chemical analysis Physical and/or chemical analysis report to be supplied with each shipment. (if requested by OSI)</p> <p>Q06 Inspection/test data A copy of inspection and/or test data shall be supplied with each shipment identifiable to the serial numbers and/or date code of items supplied.</p> <p>Q07 Printed wiring boards identification All printed wiring boards/assemblies shall be marked with the manufacturer's trademark and date code.</p>	<p>Q08 Age control Manufacturing date, shelf life and/or expiration date required. Material received not more than 9 months from the date of inspection at Vendor's OQC, otherwise specific. Every Production Lot or New Date Code must have one Cross-Section Coupon delivered with the PCB.</p> <p>Q09 First article inspection First Article Inspection and acceptance by OSI is required on this order. No production lots shall be shipped until written approval or waiver of the First Article Report is received from OSI. FA report consists of but not limited to 1) Physical FA sample 2) Supplier's specification 3) Supplier's measurement/inspection report 4) Material certification (RoHS, REACH and/or Conflict Mineral as require) 5) Certificate of Compliance (COC) 6) UL card (as require) 7) Cross section coupon</p> <p>Q10 Configuration control requirements To assure uniform quality and material configuration, no changes in materials, construction, source or performance shall be made for the item(s) covered by this order without prior approval from OSI. The supplier is expressly prohibited from supplying nonconforming material to OSIE without advance approval. Material Review Board review and disposition of nonconforming material shall be the sole responsibility of OSIE.</p> <p>Q11 Certificate of origin Each shipment is to be accompanied by a document which declares the country of origin on forms acceptable to the originating country's regulations.</p>
<p>A2.2: Others</p> <p>Q01 Quality system requirements The supplier shall establish and maintain a quality system that conforms to the requirements of ISO 9001</p> <p>Q02 Workmanship Electronic materials and workmanship shall comply with the requirements of J-STD-001 and IPC-A-610, class 2, current revision. For cable assembly shall comply with the requirements of IPC-A-620, class 2, current version.</p> <p>Q03 Certificate of compliance The items or services being shipped or being performed against this order must be accompanied by a Certificate of Compliance that assures full conformity with 1) RoHS Compliance (if part compliance to RoHS) 2) Applicable drawings, specifications, and terms and conditions of this order.</p> <p>Q04 CoC standard information: OSI part number, Purchase Order number, Manufacturer Name, Manufacturer Part number, Lot number or Date Code.</p> <p>Q05 Physical and chemical analysis Physical and/or chemical analysis report to be supplied with each shipment. (if requested by OSI)</p> <p>Q06 Inspection/test data A copy of inspection and/or test data shall be supplied with each shipment identifiable to the serial numbers and/or date code of items supplied.</p>	<p>Q07 First article inspection First Article Inspection and acceptance by OSI is required on this order. No production lots shall be shipped until written approval or waiver of the First Article Report is received from OSI. FA report consists of but not limited to 1) Physical FA sample 2) Supplier's specification 3) Supplier's measurement/inspection report 4) Material certification (RoHS, REACH and/or Conflict Mineral as require) 5) Certificate of Compliance (COC) 6) UL card (as require)</p> <p>Q08 Traceability Items supplied on this order shall be identified and traceable to their origin: i.e., manufacturer, manufacturing date, date purchased, lot, inspection, test data or other pertinent information relating to control of processes.</p> <p>Q09 Age control Manufacturing date, shelf life and/or expiration date required. Max 2 years for IC, 5 years for other parts with min. 6 month left shelf life.</p> <p>Q10 Configuration control requirements To assure uniform quality and material configuration, no changes in materials, construction, source or performance shall be made for the item(s) covered by this order without prior approval from OSI. The supplier is expressly prohibited from supplying nonconforming material to OSIE without advance approval. Material Review Board review and disposition of nonconforming material shall be the sole responsibility of OSIE.</p> <p>Q11 Certificate of origin Each shipment is to be accompanied by a document which declares the country of origin on forms acceptable to the originating country's regulations.</p>

Section B: For Medical Product

<p>B1: Standard Part</p>	
<p>Q01 Workmanship Electronic materials and workmanship shall comply with the requirements of J-STD-001 and IPC-A-610, class 2, current revision. For cable assembly shall comply with the requirements of IPC-A-620, class 2, current version.</p> <p>Q02 Certificate of compliance The items or services being shipped or being performed against this order must be accompanied by a Certificate of Compliance that assures full conformity with 1) RoHS Compliance (if part compliance to RoHS) 2) Applicable drawings, specifications, and terms and conditions of this order.</p> <p>Q03 CoC standard information OSI part number, Purchase Order number, Manufacturer Name, Manufacturer Part number, Lot number or Date Code.</p> <p>Q04 Inspection evidence The supplier shall maintain evidence of final inspection of material for a period of 2 years minimum or as directed by OSIE.</p> <p>Q05 Printed wiring boards/assemblies identification All printed wiring boards/assemblies shall be marked with the manufacturer's trademark and date code. Printed wiring assemblies shall be serialized; method of serialization is optional.</p> <p>Q06 Traceability Items supplied on this order shall be identified and traceable to their origin: i.e., manufacturer, manufacturing date, date purchased, lot, inspection, test data or other pertinent information relating to control of processes.</p> <p>Q07 Age control Manufacturing date, shelf life and/or expiration date required. Max. 2 years for IC and 5 years for other parts with min. 6 months left on shelf life.</p>	<p>Q08 Static sensitive material All integrated circuits and/or electrostatic sensitive devices must be delivered enclosed in electrostatic shielded tubes, sleeves, or other suitable protective materials. External packaging shall also have caution labels or marking indicating the contents contain electrostatic sensitive devices.</p> <p>Q09 Configuration control requirements To assure uniform quality and material configuration, no changes in materials, construction, source or performance shall be made for the item(s) covered by this order without prior approval from OSI. The supplier is expressly prohibited from supplying nonconforming material to OSIE without advance approval. Material Review Board review and disposition of nonconforming material shall be the sole responsibility of OSIE.</p> <p>Q10 Government source inspection Government source inspection is required prior to shipment. Upon receipt of this order, the supplier will promptly notify the cognizant government representative so that appropriate planning for government source inspection can be accomplished. (if requested by OSI)</p> <p>Q11 OSI source inspection OSI source inspection is required prior to shipment. The supplier shall provide sufficient advance notice to OSI to permit timely scheduling of source inspection. (if requested by OSI)</p> <p>Q12 MSDS requirement (Applicable for Chemical) The current MSDS for material supplied is required for each shipment.</p> <p>Q13 Certificate of origin Each shipment is to be accompanied by a document which declares the country of origin on forms acceptable to the originating country's regulations.</p>

<p>B2: Non Standard Part B2.1: PCB</p>	
<p>Q01 Quality system requirements The supplier shall establish and maintain a quality system that conforms to the requirements of ISO 9001 or ISO13485</p> <p>Q02 Workmanship Electronic materials and workmanship shall comply with the requirements of J-STD-001 and IPC-A-600, class 3, current revision.</p> <p>Q03 Certificate of compliance The items or services being shipped or being performed against this order must be accompanied by a Certificate of Compliance that assures full conformity with 1) RoHS Compliance (if part compliance to RoHS) 2) Applicable drawings, specifications, and terms and conditions of this order.</p> <p>Q04 CoC standard information OSI part number, Purchase Order number, Manufacturer Name, Manufacturer Part number, Lot number or Date Code.</p> <p>Q05 Inspection evidence The supplier shall maintain evidence of final inspection of material for a period of 7 years minimum or as directed by OSIE.</p> <p>Q06 Inspection/test data A copy of inspection and/or test data shall be supplied with each shipment identifiable to the serial numbers and/or date code of items supplied.</p> <p>Q07 First article inspection First Article Inspection and acceptance by OSI is required on this order. Cross-section sample to be submitted No production lots shall be shipped until written approval or waiver of the First Article Report is received from OSI. FA report consists of but not limited to 1) Physical FA sample 2) Supplier's specification 3) Supplier's measurement/inspection report 4) Material certification (RoHS, REACH and/or Conflict Mineral as require) 5) Certificate of Compliance (COC) 6) UL card (as require) 7) Cross section coupon</p> <p>Q08 Traceability Items supplied on this order shall be identified and traceable to their origin: i.e., manufacturer, manufacturing date, date purchased, lot, inspection, test data or other pertinent information relating to control of processes.</p>	<p>Q09 Age control Manufacturing date, shelf life and/or expiration date required. Material received not more than 9 months from the date of inspection at vendor's OQC, otherwise specific. Every Production Lot or New Date Code must have one Cross-Section Coupon delivered with the PCB.</p> <p>Q10 Configuration control requirements To assure uniform quality and material configuration, no changes in materials, construction, source or performance shall be made for the item(s) covered by this order without prior approval from OSI. The supplier is expressly prohibited from supplying nonconforming material to OSIE without advance approval. Material Review Board review and disposition of nonconforming material shall be the sole responsibility of OSIE.</p> <p>Q11 Government source inspection Government source inspection is required prior to shipment. Upon receipt of this order, the supplier will promptly notify the cognizant government representative so that appropriate planning for government source inspection can be accomplished.</p> <p>Q12 Customer furnished material The supplier prior to use must inspect OSI or government-furnished material. When deficient material is found, the OSI buyer will be immediately notified. OSI will provide written instructions for disposition of the material. (if requested by OSI)</p> <p>Q13 Certificate of origin Each shipment is to be accompanied by a document which declares the country of origin on forms acceptable to the originating country's regulations.</p> <p>Q14 Rework, Modification and Repair Supplier is NOT allowed to carry out the following repair to correct PCB defects based on IPC 7711/7722, current revision. 1) Blisters and Delamination 2) Hole Repair 3) Key and Slot Repair 4) Base Material Repair 5) Lifted Conductors 6) Conductor Repair 7) Conductor Cut 8) Lifted Land Repair 9) Land Repair 10) Edge Contact Repair 11) Surface Mount Pad Repair 12) Plated Hole repair</p>

B2.2: Others	
<p>Q01 Quality system requirements The supplier shall establish and maintain a quality system that conforms to the requirements of ISO 9001 or ISO13485</p> <p>Q02 Workmanship Electronic materials and workmanship shall comply with the requirements of J-STD-001 and IPC-A-610, class 2, current revision. For cable assembly shall comply with the requirements of IPC-A-620, class 2, current version.</p> <p>Q03 Certificate of compliance The items or services being shipped or being performed against this order must be accompanied by a Certificate of Compliance that assures full conformity with 1) RoHS Compliance (if part compliance to RoHS) 2) Applicable drawings, specifications, and terms and conditions of this order.</p> <p>Q04 CoC standard information: OSI part number, Purchase Order number, Manufacturer Name, Manufacturer Part number, Lot number or Date Code.</p> <p>Q05 Physical and chemical analysis Physical and/or chemical analysis report to be supplied with each shipment. (if requested by OSI)</p> <p>Q06 Inspection/test data A copy of inspection and/or test data shall be supplied with each shipment identifiable to the serial numbers and/or date code of items supplied.</p>	<p>Q07 First article inspection First Article Inspection and acceptance by OSI is required on this order. No production lots shall be shipped until written approval or waiver of the First Article Report is received from OSI. FA report consists of but not limited to 1) Physical FA sample 2) Supplier's specification 3) Supplier's measurement/inspection report 4) Material certification (RoHS, REACH and/or Conflict Mineral as require) 5) Certificate of Compliance (COC) 6) UL card (as require)</p> <p>Q08 Traceability Items supplied on this order shall be identified and traceable to their origin: i.e., manufacturer, manufacturing date, date purchased, lot, inspection, test data or other pertinent information relating to control of processes.</p> <p>Q09 Age control Manufacturing date, shelf life and/or expiration date required. Max. 2 years for IC and 5 years for other parts with min. 6 months left on shelf life.</p> <p>Q10 Configuration control requirements To assure uniform quality and material configuration, no changes in materials, construction, source or performance shall be made for the item(s) covered by this order without prior approval from OSI. The supplier is expressly prohibited from supplying nonconforming material to OSIE without advance approval. Material Review Board review and disposition of nonconforming material shall be the sole responsibility of OSIE.</p> <p>Q11 Certificate of origin Each shipment is to be accompanied by a document which declares the country of origin on forms acceptable to the originating country's regulations.</p>

Section C: For Avionics/Military/Space Product

C1: Standard Part	
<p>Q01 Workmanship Electronic materials and workmanship shall comply with the requirements of J-STD-001 and IPC-A-610, class 3, current revision. For cable assembly shall comply with the requirements of IPC-A-620, class 3, current version.</p> <p>Q02 Certificate of compliance The items or services being shipped or being performed against this order must be accompanied by a Certificate of Compliance that assures full conformity with 1) RoHS Compliance (if part compliance to RoHS) 2) Applicable drawings, specifications, and terms and conditions of this order.</p> <p>Q03 CoC standard information OSI part number, Purchase Order number, Manufacturer Name, Manufacturer Part number, Lot number or Date Code.</p> <p>Q04 Inspection evidence The supplier shall maintain evidence of final inspection of material for a period of 10 years minimum or as directed by OSIE.</p> <p>Q05 QPL requirement The MIL, AN and MS parts supplied against this order shall be manufactured by QPL sources.</p> <p>Q06 Traceability Items supplied on this order shall be identified and traceable to their origin: i.e., manufacturer, manufacturing date, date purchased, lot, inspection, test data or other pertinent information relating to control of processes.</p> <p>Q07 Age control Manufacturing date, shelf life and/or expiration date required. Max. 2 years for IC and 5 years for other parts with min 6 months left on shelf life.</p>	<p>Q08 Static sensitive material All integrated circuits and/or electrostatic sensitive devices must be delivered enclosed in electrostatic shielded tubes, sleeves, or other suitable protective materials. External packaging shall also have caution labels or marking indicating the contents contain electrostatic sensitive devices.</p> <p>Q09 Configuration control requirements To assure uniform quality and material configuration, no changes in materials, construction, source or performance shall be made for the item(s) covered by this order without prior approval from OSI. The supplier is expressly prohibited from supplying nonconforming material to OSIE without advance approval. Material Review Board review and disposition of nonconforming material shall be the sole responsibility of OSIE.</p> <p>Q10 Government source inspection Government source inspection is required prior to shipment. Upon receipt of this order, the supplier will promptly notify the cognizant government representative so that appropriate planning for government source inspection can be accomplished. (if requested by OSI)</p> <p>Q11 OSI source inspection OSI source inspection is required prior to shipment. The supplier shall provide sufficient advance notice to OSI to permit timely scheduling of source inspection. (if requested by OSI)</p> <p>Q12 MSDS requirement (Applicable for Chemical) The current MSDS for material supplied is required for each shipment.</p> <p>Q13 Certificate of origin Each shipment is to be accompanied by a document which declares the country of origin on forms acceptable to the originating country's regulations.</p>

<p>C2: Non Standard Part C2.1: PCB</p>	
<p>Q01 Quality system requirements The supplier shall establish and maintain a quality system that conforms to the requirements of ISO 9001 or AS9100</p> <p>Q02 Workmanship Electronic materials and workmanship shall comply with the requirements of J-STD-001 and IPC-A-600, class 3, current revision.</p> <p>Q03 Certificate of compliance The items or services being shipped or being performed against this order must be accompanied by a Certificate of Compliance that assures full conformity with</p> <ol style="list-style-type: none"> 1) RoHS Compliance (if part compliance to RoHS) 2) Applicable drawings, specifications, and terms and conditions of this order. <p>Q04 CoC standard information OSI part number, Purchase Order number, Manufacturer Name, Manufacturer Part number, Lot number or Date Code.</p> <p>Q05 Inspection evidence The supplier shall maintain evidence of final inspection of material for a period of 10 years minimum or as directed by OSIE.</p> <p>Q06 Inspection/test data A copy of inspection and/or test data shall be supplied with each shipment identifiable to the serial numbers and/or date code of items supplied.</p> <p>Q07 Printed wiring boards identification All printed wiring boards shall be marked with the manufacturer's trademark and date code.</p> <p>Q08 QPL requirement The MIL, AN and MS parts supplied against this order shall be manufactured by QPL sources.</p> <p>Q09 Traceability Items supplied on this order shall be identified and traceable to their origin: i.e., manufacturer, manufacturing date, date purchased, lot, inspection, test data or other pertinent information relating to control of processes.</p>	<p>Q10 First article inspection First Article Inspection and acceptance by OSI is required on this order. Supplier shall submit a complete First Article Report in accordance with AS 9102 with the part(s) that it represents. No production lots shall be shipped until written approval or waiver of the First Article Report is received from OSI. A new or delta first article must be completed when the item has not been manufactured in the past two years, when a drawing change occurs, when a new supplier for a detail part is used or when the manufacturing process or location has changed. FA report consists of but not limited to</p> <ol style="list-style-type: none"> 1) Physical FA sample 2) Supplier's specification 3) Supplier's measurement/inspection report 4) Material certification (RoHS, REACH and/or Conflict Mineral as require) 5) Certificate of Compliance (COC) 6) UL card (as require) 7) Cross section coupon <p>Q11 Age control Manufacturing date, shelf life and/or expiration date required. Material received not more than 9 months from the date of inspection at vendor's OQC, otherwise specific. Every Production Lot or New Date Code must have one Cross-Section Coupon delivered with the PCB.</p> <p>Q12 Configuration control requirements To assure uniform quality and material configuration, no changes in materials, construction, source or performance shall be made for the item(s) covered by this order without prior approval from OSI. The supplier is expressly prohibited from supplying nonconforming material to OSIE without advance approval. Material Review Board review and disposition of nonconforming material shall be the sole responsibility of OSIE.</p> <p>Q13 Government source inspection Government source inspection is required prior to shipment. Upon receipt of this order, the supplier will promptly notify the cognizant government representative so that appropriate planning for government source inspection can be accomplished. (if requested by OSI)</p> <p>Q14 FAA/EASA documentation An original FAA/EASA authorized release certificate approval is required to accompany each shipment. (if requested by OSI)</p> <p>Q15 Certificate of origin Each shipment is to be accompanied by a document which declares the country of origin on forms acceptable to the originating country's regulations.</p>

<p>C2.2: Others</p>	
<p>Q01 Quality system requirements The supplier shall establish and maintain a quality system that conforms to the requirements of ISO 9001 or AS9100</p> <p>Q02 Workmanship Electronic materials and workmanship shall comply with the requirements of J-STD-001 and IPC-A-610, class 3, current revision. For cable assembly shall comply with the requirements of IPC-A-620, class 3, current version.</p> <p>Q03 Certificate of compliance The items or services being shipped or being performed against this order must be accompanied by a Certificate of Compliance that assures full conformity with</p> <ol style="list-style-type: none"> 1) RoHS Compliance (if part compliance to RoHS) 2) Applicable drawings, specifications, and terms and conditions of this order. <p>Q04 CoC standard information OSI part number, Purchase Order number, Manufacturer Name, Manufacturer Part number, Lot number or Date Code.</p> <p>Q05 Physical and chemical analysis Physical and/or chemical analysis report to be supplied with each shipment. (if requested by OSI)</p> <p>Q06 Inspection/test data A copy of inspection and/or test data shall be supplied with each shipment identifiable to the serial numbers and/or date code of items supplied.</p> <p>Q07 QPL requirement The MIL, AN and MS parts supplied against this order shall be manufactured by QPL sources.</p> <p>Q08 Traceability Items supplied on this order shall be identified and traceable to their origin: i.e., manufacturer, manufacturing date, date purchased, lot, inspection, test data or other pertinent information relating to control of processes.</p>	<p>Q09 First article inspection First Article Inspection and acceptance by OSI is required on this order. Supplier shall submit a complete First Article Report in accordance with AS 9102 with the part(s) that it represents. No production lots shall be shipped until written approval or waiver of the First Article Report is received from OSI. A new or delta first article must be completed when the item has not been manufactured in the past two years, when a drawing change occurs, when a new supplier for a detail part is used or when the manufacturing process or location has changed. FA report consists of but not limited to</p> <ol style="list-style-type: none"> 1) Physical FA sample 2) Supplier's specification 3) Supplier's measurement/inspection report 4) Material certification (RoHS, REACH and/or Conflict Mineral as require) 5) Certificate of Compliance (COC) 6) UL card (as require) <p>Q10 Age control Manufacturing date, shelf life and/or expiration date required. Max. 2 years for IC and 5 years for other parts with min. 6 months left on shelf life.</p> <p>Q11 Configuration control requirements To assure uniform quality and material configuration, no changes in materials, construction, source or performance shall be made for the item(s) covered by this order without prior approval from OSI. The supplier is expressly prohibited from supplying nonconforming material to OSIE without advance approval. Material Review Board review and disposition of nonconforming material shall be the sole responsibility of OSIE.</p> <p>Q12 FAA/EASA documentation An original FAA/EASA authorized release certificate approval is required to accompany each shipment. (if requested by OSI)</p> <p>Q13 Certificate of origin Each shipment is to be accompanied by a document which declares the country of origin on forms acceptable to the originating country's regulations.</p>