

Part 1: General Quality Requirements

Requirement Name	Requirement
Quality Management System	The supplier shall maintain a quality system equivalent to the requirements of ISO 9001 or AS9100. Third-party certification by an accredited registrar is preferred. Suppliers declaring compliance with no formal accredited registration may require review. For suppliers not meeting these specifications, IntelliSense Systems will review and determine if system implemented is sufficient based upon the nature and levels of control required by the parts, materials, or services being procured.
Design, Process, or Material Changes	The supplier shall not implement any changes to IntelliSense Systems drawings and/or specifications and/or materials without written approval from IntelliSense Systems in the form of an IntelliSense Systems -approved Request for Deviation/Waiver (form F-005).
Submission of Nonconforming Material to IntelliSense Systems SI	Items not in conformance with the requirements of the Purchase Order, IntelliSense Systems drawings, specifications, and industry standards referenced therein, or that cannot be corrected through continuation of the original manufacturing process or by rework, shall not be submitted without prior written approval from IntelliSense Systems in the form of an approved Request for Deviation/Waiver (form F-005).
Deviation / Waiver	Should the supplier not be able to meet the requirements of the PO, supplier may prepare and submit a Request for Deviation/Waiver (form F-005), available from IntelliSense Systems Purchasing or Quality Assurance. Submittals shall include supplier-recommended disposition(s) with sufficient technical, quality, and reliability justification.
Resubmissions of Material	Nonconforming items returned from IntelliSense Systems which are subsequently resubmitted by the supplier shall include indication of resubmission on the accompanying paperwork and shipping documents. Reference shall be made to the IntelliSense Systems rejection documentation and evidence presented to demonstrate that the causes for rejection have been corrected.
Notification of Previous Delivery of Defective Material	In the event the supplier / special processor determines that material previously delivered to IntelliSense Systems was defective, written notification to the IntelliSense Systems Purchasing representative is required within thirty (30) calendar days.
First Article Inspection	IntelliSense Systems may perform First Article inspection under the following conditions: 1) new supplier; 2) new part number; 3) revision change; 4) same manufacturer but lapse between production runs; 5) verification of implementation of corrective & preventive actions; 6) new facility; or 7) change of ownership.
Key Characteristics	When key characteristics are identified on IntelliSense Systems drawings, the supplier shall implement process controls as required by the drawing, or if not specified, as appropriate to insure that the key characteristic is satisfied.
Corrective Action	When requested by IntelliSense Systems, the supplier shall investigate nonconformities to determine the root cause(s) of failures, and take effective action(s) as appropriate to correct the items and prevent future failures. Unless otherwise requested by IntelliSense Systems, such corrective action(s) may be documented in the supplier's format. Suppliers CAR system shall be a closed-loop system.
Calibration	The supplier shall only utilize inspection and test equipment for acceptance that has been calibrated to the requirements of a recognized standards.
Preservation & Packaging	Unless otherwise specified, the supplier shall use best commercial practices for preservation and packaging of items supplied to IntelliSense Systems.
Flow Down of Requirements	The supplier shall insure that requirements be flowed down to sub-tier suppliers, including key characteristics, materials selection, first article inspection, process control where required.
Shelf-Life	Materials utilized on this order shall be within the applicable shelf-life dates. Expired materials shall not be used.
Record Retention	Suppliers and special processors, as well their subcontractors, shall maintain records to substantiate product compliance to the IntelliSense Systems purchase order requirements and must be capable of furnishing copies of these records upon request of IntelliSense Systems, IntelliSense Systems customers, and government / regulatory representatives as applicable. Such records shall be maintained for a minimum of 7 years after date of delivery to IntelliSense Systems, or as otherwise agreed upon and documented.
Counterfeit Parts & Materials	Supplier shall have a counterfeit material avoidance, detection, mitigation, and disposition program. The supplier's counterfeit material program shall cover both counterfeit electronic parts as well as non-electronic parts and materials. Seller shall only deliver authentic components, material, devices, pieces, modules, assemblies, subassemblies, goods, etc. that are manufactured by or obtained from original equipment manufacturers (OEMs), original component manufacturers (OCMs), or authorized distributors. Supplier shall not provide refurbished or re-used EEE parts, components, hardware, or materials. Supplier shall make available documentation that authenticates and provides traceability of the parts or materials to the applicable OEM, OCM, or distributors.
Change of Facility or Ownership	The supplier shall notify IntelliSense Systems when manufacturing operations being performed in support of this purchase order are moved to another facility with a separate street and/or city address. Supplier shall also notify IntelliSense Systems if ownership of the supplier has changed.

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Intellisense Systems -Furnished Material	If applicable, supplier shall certify that material used in fabrication is the material furnished by IntelliSense Systems. Certification shall reference I IntelliSense Systems's Purchase Order of the material being supplied.
Surveillance & Right of Entry	Representatives of Intellisense Systems reserve the right to visit the supplier and its suppliers with the intent of resolving delivery and quality issue's, etc.
Mercury Exclusion	The items supplied under this Purchase Order shall contain no metallic mercury or mercury compounds and must be free from mercury contamination. During manufacturing, testing, or inspection, the items supplied shall not come in contact with mercury or any of its compounds nor with any mercury-containing devices employing only a single boundary of containment. Note: A single boundary of containment is one not backed by a second seal or barrier to prevent contamination in the event of an accidental rupture of the primary seal or barrier. In the event this requirement cannot be met, contact the IntelliSense Systems Purchasing representative.
Use of Ozone Depleting Chemicals	The use of Ozone Depleting Chemicals (ODC's) in the processing of materials or products delivered on this order is not allowed. If the product requires the use of ODC's, this must be brought to the attention of the IntelliSense Systems buyer prior to any such processing. The notification to IntelliSense Systems must include the reason that alternative chemicals or processing cannot be substituted for ODC usage. Written authorization from IntelliSense Systems is required prior to processing products for this order with ODC's. This requirement must be imposed on any sub-tier supplier or processor utilized in the production of this order.
Foreign Object Detection	Materials, parts, and assemblies must be protected from the intrusion of foreign object debris that could potentially cause damage.
Electro-static Discharge Sensitive (ESDS) Materials	If applicable, the supplier shall maintain an ESD Program meeting the requirements of ANSI/ESD S20.20 or equivalent for the control, handling, packaging, and identification of ESDS parts and materials.
Packing Slip/Certificate of Conformance	A legible Packing Slip shall be provided with each shipment submitted to Intellisense Systems. It is preferred to include a "Certificate of Conformance" (C of C) statement. The C of C shall be in the supplier's format and may either be a separate document or may be included within the packing list. The C of C statement shall state that the items were produced in conformance with requirements as specified in the IntelliSense Systems purchase order. As a minimum, the Packing Slip shall note 1) the manufacturer or distributor's name and address; 2) the IntelliSense Systems purchase order number; 3) the part number(s) and revision(s) when applicable and 4) quantities delivered.
Supplier Awareness	Intellisense Systems Quality and Safety Policies are 1) meet or exceed customer's expectation by providing quality products, on time, and in compliance with customer, regulatory, and authority requirements; 2) commitment to product safety, and providing a safe environment for employees and visitors, in compliance with customer, industry, regulatory, and authority safety requirements. Supplier contribute to the compliance of IntelliSense Systems's Quality and Safety Policies, therefore, supplier personnel should be aware of 1) their contribution to products or service conformity; 2) their contribution to product safety; and 3) the importance of ethical behavior when providing products and/or services to IntelliSense Systems.

Part 2: Specific Quality Clauses

Quality Clause	Quality Clause Name	Quality Clause Requirement(s)
01	Inspection and Test Data	The supplier shall provide inspection and test data with the subject item(s). Such test data shall include individual or summary parameter measurements as appropriate.
04	First Article Inspection	Supplier shall perform a First Article Inspection (FAI) on one piece chosen at random from the first lot presented for IntelliSense Systems acceptance. A copy of the FAI report shall be submitted to IntelliSense Systems with the shipment. If discrepancies are noted during the FAI, the supplier shall notify the IntelliSense Systems purchasing representative for guidance. Full or delta FAI's shall be required as appropriate for 1) Revision change since the previous FAI (delta); 2) Changes to supplier's process (delta or full depending on change(s)); 3) Break in production exceeding 18 months (full FAI); or 4) Change of facility (full FAI).
05	Limited-Life Material Requirements	Note: Sealants, adhesives, etc. with <u>less than 50%</u> of useful shelf life remaining may be subject to be return by IS IntelliSense Systems. Elastomers i.e., shrink tube/sleeve, rubber gaskets, foam, etc. with <u>less than one (1) year</u> may be subject to return by IntelliSense Systems. The supplier shall provide paperwork with each shipment that allows IntelliSense Systems to obtain an expiration date for all material; (1) Date of Expiration (DOE), (2) Date of Shipment (DOS) and/or Date of Manufacture (DOM)/Cure Date (to determine the length of shelf life) or (3) date code and/or lot code.
07	Calibration Services	Calibration services shall calibrate and provide test reports in accordance with recognized metrology standards.
10	Tool Proofing	Acceptance of production tooling on this Purchase Order shall be contingent upon inspection and acceptance by IntelliSense Systems.
11	Intellisense Systems Furnished Tooling	Tooling (fixtures, jigs, molds, etc.) and test equipment fabricated by the supplier at IntelliSense Systems expense, or furnished by IntelliSense Systems, is considered property of IntelliSense Systems unless otherwise agreed upon. IntelliSense Systems is responsible for routine and periodic maintenance and calibration of such items. Suppliers are responsible for insuring appropriate protection during transport, storage, and use. Some amount of wear and tear is expected through usage. Said tooling, or replacement tooling of equal quality, shall be returned in an acceptable condition upon demand.
12	Plastic Injection Molded Parts / Plastic Overmolded / Painted / Printed / Silkscreened Parts (Acceptance Requirements)	Unless otherwise specified, the following items shall meet cosmetic workmanship grade standards in accordance with SPI QA-103 specification: 1) Injection molded parts shall meet cosmetic workmanship Grade 2B surface acceptance requirement. 2) Overmolded parts shall meet cosmetic workmanship Grade 2C surface acceptance requirement. 3) Painted/finished parts shall meet Grade 3B surface acceptance requirement. 4) Printed or silkscreened parts shall meet Grade 4B finish. Note: Any required deviation from this standard shall be communicated with engineering prior to the creation of tooling with design for manufacturability feedback. Required deviations shall be approved by IntelliSense using form Supplier Deviation Form (F-005) with the creation of a Part Acceptance Criteria to document acceptable deviations from SPI AQ-103. Approved first article piece part may be used as an example of defect free part for acceptance.
15	Acceptance Sampling	Acceptance sampling inspection may be utilized during performance of this order. Prior to use, the sampling plan must be submitted and approved by IntelliSense Systems Quality Assurance. The use of a sampling plan in no way effects IntelliSense Systems's right to reject any unit(s) of product found defective.
16	Solderability, Date Codes > 4 years	Unless otherwise agreed upon between IntelliSense Systems and supplier, EEE parts with date codes older than 4 years must perform a minimum 1-piece solderability test (in accordance with or equivalent to Quality Clause 18) with evidence including photos provided to IntelliSense Systems QA and Project Lead for review and approval before any assembly can be produced with the parts.
17	Intellisense Systems - Directed Source	The Supplier shall use only those sources of goods or services that have been approved by 177 TRUE RMS. Such direction is generally provided on the IntelliSense Systems purchase order. If not specified, contact assigned IntelliSense Systems Procurement Representative for direction.
18	Solderability	Component leads, terminations, lugs, terminals, and wires shall be capable of meeting the solderability requirements of IPC/EIA J-STD-002. Printed wiring boards shall be capable of meeting the solderability requirements of IPC/EIA J-STD-003.
25	Date Codes > 5 Years	Electronic components with manufacturing date codes in excess of 5 years old shall not be provided. Should it not be possible to meet this requirement, supplier must contact purchasing representative for direction.
30E	Printed Circuit Boards, Class 2	Unless otherwise specified on the IntelliSense Systems fabrication drawing, printed circuit boards (PCB's) shall meet the requirements of IPC-A-6012 and IPC-A-600, Class 2.

Part 2: Specific Quality Clauses

Quality Clause	Quality Clause Name	Quality Clause Requirement(s)
30F	Soldering Workmanship, Class 2	Soldering and assembly workmanship shall be in accordance with the requirements of IPC/EIA J-STD-001, Class 2. Acceptance requirements shall be in accordance with IPC-A-610, Class 2.
30H	Harnesses and Cables	The manufacturer shall be responsible for maintaining facilities, certified personnel, processes, and procedures in accordance with the latest revision of IPC-WHMA-620, Class 2.
36	Parts Obsolescence Program	<p>The Supplier represents that it will:</p> <ol style="list-style-type: none"> 1) Maintain sufficient components and materials necessary to perform this order, including obtaining commitments from its suppliers required to meet all obligation and option requirements. 2) Ensure that it can provide adequate notice of parts and materials that will no longer be available for a period of 24 months. 3) Notify I Intellisense Systems SI of part and materials which are due to be discontinued.
50	Circuit Card Assembly, Turn-key, Supplier-Provided Material	<p>The supplier is required to satisfy the following:</p> <ol style="list-style-type: none"> 1) All general requirements as noted in Part 1; 2) All notes as documented on pertinent Intellisense Systems fabrication, specification and source control, and assembly drawings. 3) All documents referenced within the PO, drawing package, and BOM including test and inspection procedures. 4) The following specific quality clauses: 01, 04, 16, 18, 30E, 30F