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1.0 Purpose

Quality Codes are used to communicate specific quality and contract requirements to our suppliers. Below is a list of the current Quality Codes being used by Axiom Electronic LLC. If a code referenced on the Purchase Order cannot be located within this document, notify the appropriate Axiom Electronics Purchasing contact for clarification prior to shipment of product. Failure to comply with these requirements, when referenced on the Purchase Order, will be cause for rejection of material at Axiom Electronics Receiving Inspection. In the event of conflict between the requirements listed herein and Purchase Order text, the Purchase Order text shall prevail.

2.0 Applications

Axiom procurement and suppliers are affected by this procedure. The process owner of this document is the Supply Chain Manager.

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Axiom Electronic LLC Supplier Quality Codes

| Q01 | A legible Certificate of Conformance (C of C) is required with every shipment. Quality Assurance & Control Records used to substantiate conformance must be retained for a minimum of 10 years. If paper, at a minimum, protect the record from becoming dirty or soiled and keep away from sources of contamination. If electronic, at a minimum, use virus protection practices and backup data on a regular basis. The supplier shall contact Axiom prior to destruction of any records. Axiom may request delivery of such records at no additional charge. |
|-----|---|
| | Products and/or services provided may not be changed without written permission. Supplier must include Axiom part number, where applicable, and purchase order number on all documentation. If applicable, Electrostatic-sensitive devices shall be handled and packaged in accordance with industry standards per ANSI/ESD S20.20 as amended. |
| | Material is to be adequately packaged in order to prevent damage (scratches, scuffs, dings, etc.) from typical handling while in transit. |
| | The supplier must identify parts with Axiom part number and revision letter, supplier designated lot number/serial number, and/or any other unique identifier. Do not cover manufacturer's label. |
| | Date Code Restriction: Component date codes must be noted on deliverables. If parts are older than 5 years, supplier must obtain written approval prior to shipping. |
| | All components (or wires) shall meet the solderibility requirements of J-STD-002, Solderibility Tests for Component Leads, Terminations, Lugs, Terminals and Wires. |
| | Supplier shall behave ethically to all stakeholders. For guidance refer to the "Defense Industry Initiative Supplier Code of Conduct": <u>Supplier Code of Conduct</u> (axiomelectronics.com) |
| | Supplier shall ensure that persons are aware of: Product of service conformity e.g. individual accountability, requirements, process controls, reporting nonconformance and product safety e.g. attention to detail, safety alerts, promoting a safe culture. |

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| Q02 | Supplier must flow dow Axiom purchase Order t | n all applicable requirement o sub-tier suppliers. | s and key characteristic | cs from the |
| | regulatory authority repr | ledges and agrees that Axion resentatives shall have right locumented information and se Order. | of at any level of the s | upply |
| | material. Supplier ackno | n approval from Axiom befo wledges it shall apply suitat ats or nonconformance repor | ole corrective action w | - |
| Q03 | external, that could or w performance of this Pure | | oducts and/or services | |
| 004 | | Axiom of any changes to the | | |
| Q04 | | e, when required, test specir ons) for design approval, ins | | |
| Q05 | Items returned to supplie within 30 days of receip end of the 30 day grace Seller warrants that all specifications and require and workmanship for a p extent Goods are not furnished by Buyer, the warrant shall survive insp warranty shall run to B shall begin after Buyer's credit or refund, or (ii) re conforming Goods. Return | er for credit: Supplier must f t of returned product. If cred period, Axiom will apply the l Goods furnished under t ements of this contract and shaperiod of 12 months from the manufactured pursuant to of Goods shall be free from de pection, test and acceptance of uyer and its successors, ass final acceptance. Buyer may equire prompt correction or r rn to Seller of defective or no replaced Goods shall be at Se | Turnish credit memo to lit memo is not receive e credit to an open invo- he contract shall con all be free from defects date of acceptance of E detailed designs and s sign and specification of, and payment for the igns and customers. Su at its sole option, either eplacement of the defeo n-conforming Goods at | Axiom d by the bice. form to all s in materials Buyer. To the pecifications defects. This Goods. This ich warranty (i) return for ctive or non- |

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| Q06 | Supplier shall have a counterfeit parts avoidance, detection, mitigation, and |
|-------|---|
| | disposition program meeting the requirements of Aerospace Recommended Practice |
| | AS5553. Seller shall only deliver authentic components, devices, goods, etc. that are |
| | manufactured by or obtained from original equipment manufacturers (OEM's), |
| | original component manufacturers (OCM's) or authorized distributors. Upon request, |
| | seller shall make available documentation that authenticates and provides traceability |
| | of the parts to the applicable OEM or OCM. |
| | Supplier shall not provide refurbished or re-used EEE (Electrical, Electronic, |
| | Electromechanical) parts, components, hardware, or materials. |
| | Supplier shall notify Axiom with the pertinent facts if supplier becomes aware or |
| | suspects that it has furnished Counterfeit components. |
| | Supplier shall be liable for all costs associated with removing and replacing |
| 007 | counterfeit components. |
| Q07 | Moisture sensitive components shall be shipped and stored in moisture barrier bags |
| | (MBB) with desiccant and humidity indicator card. The MBB, desiccant and humidity |
| | indicator card shall comply with J-STD-033 Handling, Packing, Shipping and use of |
| | Moisture/Reflow Sensitive Surface Mount Devices. |
| | The HIC and desiccant shall not be placed in a separate plastic bag inside the MBB, |
| | laminated or otherwise shielded full exposure to the interior of the sealed MBB. The |
| | desiccant shall not be placed next to the HIC card when possible. |
| | ESD Class 0 components shall be identified as ESD Class 0 on outside packaging. |
| | Desiccant shall be sulfur-free. |
| Q08 | Components must be packaged in either continuous tape/reel, trays, or full size tubes |
| | with continuous tape/reel preferable. All other packaging options must be approved in |
| | writing prior to shipping. |
| 0.00 | Polarized components must be oriented in one consistent direction. |
| Q09 | Wire and cable spools shall not exceed 2 splices per 1000 FT without written approval |
| | prior to shipment. |
| | Tin plated copper wire shall not be more than 5 years old based on the date of manufacture. |
| | All wires shall meet the solderibility requirements of J-STD-002, Solderibility Tests |
| | for Component Leads, Terminations, Lugs, Terminals and Wires. |
| Q10 | Age-sensitive material shall be marked with the expiration date or other information |
| × • • | sufficient to easily determine the expiration date. Material must have a minimum of |
| | 80% shelf life remaining at time of receipt at Axiom. Written approval is required for |
| | deviation. Safety Data Sheets (SDS) must be included with shipment. |
| Q11 | PCB's must be manufactured in accordance with IPC Class 2 or Class 3 Standards per |
| | provided drawing/data requirements. Supplier repairs to PCB's require written |
| | authorization from Axiom. |
| Q12 | Removed. |

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| Q13 | compliance with a | | | t document product documents, plus material |
|------------|--|---|---|--|
| Q14 | When an AS9102 is required by circ compliant first art be tagged as such. | First Article is req umstances specific icle report shall be | uested on the PO or a re ed in AS9102 (current re included with the deliv | rery. First Article piece to |
| Q15 | | | ective PCB that is part o d the X-Out PCB is defe | |
| | | shall be marked in and on both sides t | | e X-Out obvious. Marking |
| | location in the arr Outs. X-Outs per Array below for specific X-Out Arrays per | ay. They shall not : the maximum nu : quantities. | be mixed intermittently mber of x-outs allowed PO): the maximum perc | ely and grouped by X-Out with arrays that have no X- on each array. See table ent of arrays allowed with at |
| | PCBs per | Number of X- Outs Allowed Per Array | X-out Arrays per PO (Maximum % of | |
| | Array | I el Allay | arrays allowed with | |
| | | | at least one X-out. | _ |
| | 2 to 3 | 1 | at least one X-out. | |
| | 2 to 3 4 to 5 | 1 2 | at least one X-out. 20% 20% | |
| | 2 to 3 4 to 5 6 to 10 | 1 2 3 | at least one X-out. 20% 20% 20% | |
| | 2 to 3 4 to 5 6 to 10 11 to 15 | 1 2 | at least one X-out. 20% 20% | |
| | 2 to 3 4 to 5 6 to 10 | 1 2 3 4 | at least one X-out. 20% 20% 20% 20% | |
| | $ \begin{array}{c} 2 \text{ to } 3 \\ 4 \text{ to } 5 \\ 6 \text{ to } 10 \\ 11 \text{ to } 15 \\ 16 \text{ to } 20 \\ > 20 \\ \text{Axioms X-outs res} \end{array} $ | 1 2 3 4 5 6 cquirements are loc OP000027) section | at least one X-out. 20% 20% 20% 20% 20% 20% 20% | e Printed Circuit Board der our "Suppliers" tab |
| Q16 | 2 to 3 $4 to 5$ $6 to 10$ $11 to 15$ $16 to 20$ 20 Axioms X-outs ree Requirements (A0) <u>https://axiomelec</u> Prior to PCB man array drawing to A | 1 2 3 4 5 6 cquirements are loc OP000027) section ctronics.com | at least one X-out. 20% | der our "Suppliers" tab ver a dimensional PCB rawing. After array |
| Q16 | 2 to 3 $4 to 5$ $6 to 10$ $11 to 15$ $16 to 20$ 20 Axioms X-outs ree Requirements (A0) <u>https://axiomelec</u> Prior to PCB man array drawing to A | 1 2 3 4 5 6 cquirements are loc OP000027) section ctronics.com | at least one X-out. 20% 20% 20% 20% 20% 20% 25% cated on our website, seen 6.10 Array X-outs und g, the supplier shall delive approval of the array d | der our "Suppliers" tab ver a dimensional PCB rawing. After array |
| | $\begin{array}{c} 2 \text{ to } 3 \\ \hline 2 \text{ to } 3 \\ \hline 4 \text{ to } 5 \\ \hline 6 \text{ to } 10 \\ \hline 11 \text{ to } 15 \\ \hline 16 \text{ to } 20 \\ \hline > 20 \\ \hline Axioms X-outs research Requirements (A0 https://axiomelecondection of the second secon$ | 1 2 3 4 5 6 cquirements are loc OP000027) section etronics.com uufacturing starting Axiom and receive r shall provide Axi Automated Optical | at least one X-out. 20% 20% 20% 20% 20% 20% 25% cated on our website, see n 6.10 Array X-outs und g, the supplier shall delive approval of the array d om with the array Gerb | der our "Suppliers" tab ver a dimensional PCB rawing. After array er data. |
| Q17 Q18 | $\begin{array}{c} 2 \text{ to } 3 \\ \hline 2 \text{ to } 3 \\ \hline 4 \text{ to } 5 \\ \hline 6 \text{ to } 10 \\ \hline 11 \text{ to } 15 \\ \hline 16 \text{ to } 20 \\ \hline > 20 \\ \hline Axioms X-outs ree Requirements (A0 https://axiomelecondection of the second of $ | 1 2 3 4 5 6 cquirements are loc OP000027) section etronics.com uufacturing starting Axiom and receive r shall provide Axi Automated Optical | at least one X-out. 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% atted on our website, seen 6.10 Array X-outs under g, the supplier shall delive approval of the array dom with the array Gerb I Inspection (OL AOI), | der our "Suppliers" tab ver a dimensional PCB rawing. After array er data. |
| Q17 | $\begin{array}{c} 2 \text{ to } 3 \\ \hline 2 \text{ to } 3 \\ \hline 4 \text{ to } 5 \\ \hline 6 \text{ to } 10 \\ \hline 11 \text{ to } 15 \\ \hline 16 \text{ to } 20 \\ \hline > 20 \\ \hline Axioms X-outs research Requirements (A0 https://axiomelecondection of the second secon$ | 1 2 3 4 5 6 cquirements are loc OP000027) section etronics.com uufacturing starting Axiom and receive r shall provide Axi Automated Optical | at least one X-out. 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% 20% atted on our website, seen 6.10 Array X-outs under g, the supplier shall delive approval of the array dom with the array Gerb I Inspection (OL AOI), | der our "Suppliers" tab ver a dimensional PCB rawing. After array er data. |

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| Q20 | PCBs shall be shipped and stored in moisture barrier bags (MBB) with desiccant and |
|-----|---|
| Q20 | |
| | humidity indicator card. The MBB, desiccant and humidity indicator card shall |
| | comply with J-STD-033 Handling, Packing, Shipping and use of Moisture/Reflow |
| | Sensitive Surface Mount Devices The HIC and desiccant shall not be placed in a |
| | separate plastic bag inside the MBB, laminated or otherwise shielded full exposure to |
| | the interior of the sealed MBB. The desiccant shall not be placed next to the HIC card |
| | when possible. Desiccant shall be sulfur-free. Boars with a silver finish shall have an |
| | appropriate amount of tarnish reduction packaging such as a silver saver paper inside |
| | the MBB. Axiom's preferred HIC is a 5 spot 10-60% HIC. |
| Q21 | Original Manufacturer's Certificate of Compliance is required with shipment. |
| Q22 | Where required by the Customer and referenced on the PO, special process suppliers |
| | (e.g., shot peen, plating, heat treatment, bonding, nondestructive testing, welding, |
| | coating, chemical processing, electro-mechanical machining, etc.) shall require |
| | accreditation through the National Aerospace and Defense Contractors Accreditation |
| | Program (NADCAP) as a pre-requisite for Axiom approval. |
| Q23 | Where required by the Customer and referenced on the PO, Seller must comply and |
| | flow down DFARS clause 252.225-7009: Restriction on Acquisition of Certain |
| | Articles Containing Specialty Metals (latest revision). |
| Q24 | A supplier of components must be Authorized/Approved by the Manufacturer. |
| | Distributor is required to immediately notify Axiom if their Authorization from |
| | OEM/OCM is changed, expires, or is revoked. |
| Q25 | Where required by the Customer and referenced on the PO, Birth Records (full supply |
| | chain material traceability): Original Manufacturer's Certificate of Compliance, plus a |
| | Certificate of Compliance from each supplier/distributor involved in buying or selling |
| | of this item on the PO. |
| Q26 | Silver-plated copper wire shall comply with SAE ARP6400 Recommended Practice for |
| | Processing and Handling Wire and Cable with Silver Plated Conductors and Shields. |
| Q27 | Where required by the Customer and referenced on the PO, Source inspection required |
| | prior to shipment of article to verify compliance with requirements. Goods and |
| | Services under this Contract are subject to Buyer's source inspection at points |
| | identified by Buyer throughout the manufacturing process including testing operations, |
| | including those at Supplier's subcontractor locations, and at no less than prior to |
| | packaging for shipment. Supplier shall furnish reasonable facilities and assistance, |
| | including Contract documentation, quality records, and related data for the safe and |
| | efficient performance of Buyer's source inspections. |
| Q28 | Suppliers are required to have a Foreign Object Debris (FOD) Control Program Plan. |
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| Q29 | For bare PCBs, the order of precedence in "Printed Circuit Board Requirements" [AOP000027], available in the supplier section of https://axiomelectronics.com applies. | | | |
| | For all other parts, the order of precedence is 1. Axiom Electronics purchase order and PO quality codes. Quality codes of Axiom's customer supersede Axiom codes. 2. Part print and part digital data. If there is a conflict, Axiom Electronics must be contacted for resolution of the conflict. Print notes take precedence over all other requirements on the drawing. Title block tolerances apply only if an applicable tolerance is not specified elsewhere on the print. 3. Customer specification and supporting documents referenced on the print 4. Industry standards and similar documents referenced on the print. 5. As applicable, standards such as IPC, ASME, MIL-Spec, etc. not called out on the print or other documentation from Axiom's customer. When using standards not specified by 1-4 above, use the order of precedence level, or the precedence level of a document/data source is not clear, Axiom Electronics must | | | |
| Q30 | be contacted for resolut Removed | | | |
| Q31 | Where required by the C flow down DFARS claus Detection and Avoidance | se 252.246-7007: Contr | actor Counterfeit Elect | |
| Q32 | Brokers are required to in electronically via email. | | | he shipment and |
| Q33 | Where required by the C flow down DFARS Claus and Cyber Incident Repo covered defense informat internal information syste identify in the contract, a contractor, and must ensu to mark covered defense provide adequate security Institute of Standards and "Protecting Controlled U and Organizations," not l | se 252.204-7012, Safeg rting, requires contract tion that is processed, s em or network. The De ny covered defense inf are that the contract inc information developed y, the contractor must, a l Technology (NIST) S nclassified Information | guarding Covered Defe ors to provide "adequa tored, or transmitted or epartment must mark, or ormation that is provid ludes the requirement in performance of the at a minimum, implem- pecial Publication (SP in Nonfederal Inform | ense Information te security" for n the contractor's or otherwise led to the for the contractor contract. To ent National) 800171, |

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| Q34 | Where required by the Customer and referenced on the PO, Seller must comply and |
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| | flow down DFARS Clause 252.246-7008: Sources of Electronic Parts (latest revision) |
| Q35 | Where required by the Customer and referenced on the PO, Seller shall comply with all |
| | applicable U.S. export control laws and economic sanctions laws and regulations, |
| | specifically including but not limited to the International Traffic in Arms Regulations |
| | (ITAR), 22 C.F.R. 500-598 (collectively, "Trade Control Laws"). Without limiting the |
| | foregoing, seller shall not transfer any export controlled item, technical data, |
| | technology, or service, including transfers to foreign persons employed by or |
| | associated with, or under contract to seller or seller's lower tier suppliers, unless |
| | authorized in advance by an export license (such as Technical Assistance Agreement |
| | (TAA) or Manufacturing License Agreement (MLA), license exception or license |
| | exemption, collectively, "Export Authorization"), as required. |
| Q36 | When shipping more than one manufacturer lot/date code(s) or work order(s) against a |
| | single PO line, please identify, document on the packaging list, and separate the |
| | physical parts with the applicable date/lot code(s) so that the original traceability can be |
| | retained at Axiom. |

Each revision of this document shall be subject to a direct peer review to ensure compliance to all AS9100 flowdown requirements, section 8.4.3.

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