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TITLE	DOCUMENT ID	REVISION ID	PAGE
Supplier Quality Codes	AW1000072		1 of 10

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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TITLE Supplier Quality Codes	DOCUMENT ID AWI000072	REVISION ID	PAGE 2 of 10

Axiom Electronics LLC Supplier Quality Codes

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TITLE Supplier Quality Codes	DOCUMENT ID AWI000072	REVISION ID	PAGE 3 of 10

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.

AUTHOR Michael Schindele	APPROVAL QMS Team	EFFECTIVE DATE 11/15/2024

TITLE	E	DOCUMENT ID	REVISION ID	PAGE
Suppli	ier Quality Codes	AWI000072		4 of 10

Q02	Supplier must flow down all applicable requirements and key characteristics from the Axiom purchase Order to sub-tier suppliers.
	Supplier hereby acknowledges and agrees that Axiom, our customers and any regulatory authority representatives shall have right of at any level of the supply chain, to all applicable documented information and facilities involved in the execution of the Purchase Order.
	Supplier agrees to obtain approval from Axiom before shipping non-conforming material. Supplier acknowledges it shall apply suitable corrective action when presented with complaints or nonconformance reports.
Q03	Supplier agrees to notify Axiom of any and all process changes, either internal or external, that could or would affect the quality of products and/or services in the performance of this Purchase Order.
	Supplier agrees to notify Axiom of any changes to their certified status.
Q04	The supplier will provide, when required, test specimens (e.g. production method, number, storage conditions) for design approval, inspection, investigation or auditing.
Q05	Items returned to supplier for credit: Supplier must furnish credit memo to Axiom within 30 days of receipt of returned product. If credit memo is not received by the end of the 30 day grace period, Axiom will apply the credit to an open invoice. Seller warrants that all Goods furnished under the contract shall conform to all specifications and requirements of this contract and shall be free from defects in materials and workmanship for a period of 12 months from the date of acceptance of Buyer. To the extent Goods are not manufactured pursuant to detailed designs and specifications furnished by Buyer, the Goods shall be free from design and specification defects. This warrant shall survive inspection, test and acceptance of, and payment for the Goods. This warranty shall run to Buyer and its successors, assigns and customers. Such warranty shall begin after Buyer's final acceptance. Buyer may at its sole option, either (i) return for credit or refund, or (ii) require prompt correction or replacement of the defective or nonconforming Goods. Return to Seller of defective or non-conforming Goods and redelivery to Buyer of corrected or replaced Goods shall be at Seller's sole expense.

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TITLE Supplier Quality Codes	DOCUMENT ID AWI000072	REVISION ID	PAGE 5 of 10

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 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.
Q09	Polarized components must be oriented in one consistent direction. Wire and cable spools shall not exceed 2 splices per 1000 FT without written approval
Qua	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
012	authorization from Axiom.
Q12	Removed.

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TITLE	DOCUMENT ID	REVISION ID	PAGE
Supplier Quality Codes	AWI000072		6 of 10

Q13	Deliver an FAI appropriate packet that includes records that document product			
Q13	compliance with all drawing features, notes and referenced documents, plus material			
	CofCs, Special Process CofCs and solder sample			
Q14	When an AS9102 First Article is requested on the PO or a revised/updated first article			
Q14	is required by circumstances specified in AS9102 (current revision), an AS9102			
	compliant first article report shall be included with the delivery. First Article piece to			
	be tagged as such. For specific Axiom requirements please refer to Supplier First			
	Article Inspection Requirements [AOP000040] available in the supplier section of			
	https://axiomelectronics.com.			
Q15	X-Outs: X-Out is defined as a defective PCB that is part of an array of PCBs.			
	Inspection and/or test has determined the X-Out PCB is defective.			
	Each X-Out PCB shall be marked in a manner that makes the X-Out obvious. Marking			
	shall be indelible and on both sides the PCB.			
	Arrays that contain X-Out PCBs shall be packaged separately and grouped by X-Out			
	location in the array. They shall not be mixed intermittently with arrays that have no X-			
	Outs. V. Outs per Arroy, Minimize the number of ye outs per erroy. No more than 50% V. outs			
	X-Outs per Array: Minimize the number of x-outs per array. No more than 50% X-outs in an array.			
Q16	Prior to PCB manufacturing starting, the supplier shall deliver a dimensional PCB			
Q10	array drawing to Axiom and receive approval of the array drawing. After array			
	approval, supplier shall provide Axiom with the array Gerber data.			
Q17	Removed.			
Q18	100% outer layer Automated Optical Inspection (OL AOI), 100% continuity testing,			
	and 100% electrical testing per IPC standards required (Class 2 minimum, Class 3			
	where specified). Test stamp shall be on individual PCBs and not on rails or border.			
Q19	Removed			
Q20	PCBs 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. 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.			
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TITLE Supplier Quality Codes	DOCUMENT ID AWI000072	REVISION ID	PAGE 7 of 10

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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TITLE	DOCUMENT ID	REVISION ID	PAGE
Supplier Quality Codes	AWI000072		8 of 10

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		
	 Axiom Electronics purchase order and PO quality codes. Quality codes of Axiom's customer supersede Axiom codes. 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 of the print or other documentation from Axiom's customer. When using standards not specified by 1-4 above, use the order of precedence contained in 		
	those standards. If there is a conflict between documents/data at the same precedence level, or the precedence level of a document/data source is not clear, Axiom Electronics must be contacted for resolution.		
Q30	Removed		
Q31	Where required by the Customer and referenced on the PO, Seller must comply and flow down DFARS clause 252.246-7007: Contractor Counterfeit Electronic Part Detection and Avoidance System (latest revision).		
Q32	Brokers are required to include data sheet and inspection report with the shipment and electronically via email.		
Q33	Where required by the Customer and referenced on the PO, Seller must comply and flow down DFARS Clause 252.204-7012, Safeguarding Covered Defense Information and Cyber Incident Reporting, requires contractors to provide "adequate security" for covered defense information that is processed, stored, or transmitted on the contractor's internal information system or network. The Department must mark, or otherwise identify in the contract, any covered defense information that is provided to the contractor, and must ensure that the contract includes the requirement for the contractor to mark covered defense information developed in performance of the contract. To provide adequate security, the contractor must, at a minimum, implement National Institute of Standards and Technology (NIST) Special Publication (SP) 800171, "Protecting Controlled Unclassified Information in Nonfederal Information Systems		

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TITLE Suppli	ier Quality Codes	DOCUMENT ID AW1000072	REVISION ID	PAGE 9 of 10

Q34	Where required by the Customer and referenced on the PO, Seller must comply and
	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.
Q37	Calibration:
	The calibration must be traceable to NIST or equivalent.
	Calibrate per ANSI/NCSL Z540.1 unless otherwise noted.

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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TITLE Supplier Quality Codes	DOCUMENT ID AWI000072	REVISION ID	PAGE 10 of 10

	Document Change Record				
Revision Date	Rev.	Brief Description of Change	Revision Author		
04/18/2018	01	Moved from PUR document to QMS. Added more detail to Q32.	Dollyb		
06/29/218	02	Revised to remove AS5553 and replace with ARP6328. Replaced DFAR 252.225-7014 with DFAR 252.225-7009. Fixed link in Q01. Modified QC 14.	Asihac		
08/09/2018	03	Removed Quality Code 19.	Asihac		
09/19/2018	04	After performing a gap analysis with AS9100D, added details to Q01, Q02, Q03, Q15, and a statement "Each revision of this document shall be subject to a direct peer review to ensure compliance to all AS9100 flowdown requirements, 8.4.3"	Dollyb		
08/21/2019	05	Removed Q4, Q12 and Q17. Added warranty statement to Q5, Added counterfeit statement from Blue Origin to end of Q6, Added wire shelf life to Q9. Reworded Q14 to make moreclear, revised Q15 to match AOP000027.	Aprilh		
01/18/220	06	Added J-Std-002 statement to Q01 and Q09. Rewrite Q16.	Aprilh		
09/24/2020	07	Replaced ARP6328 with AS5553.	Aprilh		
03/29/2023	08	Revise Q7 & Q20 for dessicant/HIC clarification, Revise Q13 to remove FAI requirement, just required records.	Mikes		
06/20/2023	09	Added Q36 for separating material by date codes/lot codes.	Mikes		
09/29/2023	10	Adding Calibration quality code	Mikes		
11/15/2024	11	Added AOP000040 reference to Q14, revised Q15, and added test stamp requirement to Q18.	Aprilh		

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