

KEO Clause ID	KEO Clause Title	KEO Clause Description
4080QC-0070	Prohibited Materials	Mercury Exclusion:
		 Mercury or mercury containing compounds SHALL not be intentionally added or come in direct com Supplies SHALL not contain functional mercury. Functional mercury is that mercury or mercury com without the presence of which the component would fail to function properly. External contaminatio rejection. The mercury vapor concentration in the air trapped about any tested item(s) SHALL not extra NAVSEAINST 5100.3D.
		Chromium Containing Paints or Primers : materials containing Chromium (VI) or any other Chromate [hexavalent chromium or Cr (VI) means chromium with a valence of positive six, in any form and in an
4080QC-0150	Acceptance Test Procedures	 Supplier to submit a copy of their acceptance test procedure thirty (30) days, prior to use, for L3Harris Procedure should include data sheets for recording all results. Procedure shall identify all test equipment to be used for acceptance. Procedure to include calibration data sheet listing equipment used, calibration date and expiration of Once Acceptance Test Procedure has been approved for the part number, the requirement for ATP has purchases of this part number, unless a revision change is made to the documentation. Supplier is obligated to notify L3Harris - KEO of any changes made to the approved ATP.
4080QC-0160	Material Process Control	 The supplier shall have on file at their facility or at their supplier's facility inspection reports per the for the materials shipped under this order. This is to certify that all items noted are in conformance with the contract, drawings, specification a documentation that all process certifications, chemical and physical test reports, are on file at your fa facility and are available for review by L3Harris - KEO.
4080QC-0170	Special Process Control	 Special Processes are those that produce part features that require destructive testing to verify confo Suppliers engaged in special processes (example: soldering, brazing, welding, etching, plating, castin have in place procedures to support special processes. Supplier must have approved methods on file of special processes (example: magnetic particle inspection, dye penetrant inspection, radiographic in Test results and process certifications are on file at your facility or your supplier's facility and are av L3Harris - KEO. Supplier shall maintain a control system for all special processes as welding, soldering and Non-detecting are certified in accordance with the specifications contained on the drawings and purchase or ensure the associated equipment used is certified as appropriate. Changes to Special Processes must be immediately communicated to L3Harris - KEO. Changes may review and auditing by L3Harris - KEO.
4080QC-0170A	Approval of Special Process Procedures	 Supplier to submit a copy of their special process procedure(s) thirty (30) days, prior to use, for L3Har requirements contained herein apply to procedures used in fulfilling the requirements of this purchas their subcontractor(s). All production and repair special processes (reference KQA-0170) when required by this purchase o specifications, drawings, etc.), must be performed in accordance with written procedures. Written procedures of special processes shall be approved by the buyer prior to performance of any submitted for approval within thirty (30) days of supplier's receipt of a purchase order. Evidence of personnel qualifications shall be available upon request when such qualification is a require Procedures shall be provided to the buyer. Once the Special Process procedure has been approved for the part number, the requirement for Spet this part number, unless a revision change is made to the documentation.
4080QC-0175	Asbestos Warning	Asbestos is a human carcinogen which presents a hazard to personnel handling or otherwise working on this order must be annotated on the packing list and must be identified accordingly with appropria handle or work with the material of the potential asbestos hazard.

ontact with hardware or supplies furnished under this order. ompound required for proper operation of the component or tion by metallic mercury or mercury compounds SHALL be cause for exceed 0.01 mg per cubic meter when tested in accordance with te type of wash primers, primers, and paints are prohibited any compound]. rris - KEO QA approval. on date. has been satisfied for future he applicable specification n and other applicable facility or your supplier's nformity. sting, heat treating) shall ile supporting acceptance c inspection). available for review by esses are documented and -destructive Evaluation or orders. Supplier shall also ay require additional larris - KEO QA approval. The hase order. The requirements are applicable to both suppliers and e order or sub-tier documents (i.e., fabrication/material any work and should be requirement. Special Process Procedure has been satisfied for future purchases of Procedure. ng with it. Any asbestos or asbestos containing material supplied priate OSHA approved labels or tags to inform all personnel who



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4080QC-0180	Serial Numbers	 Supplier shall assign individual serial numbers to each item shipped under this order. Duplication of serial numbers shall not be allowed. Serial numbers will be applied in accordance with drawing and/or specification. For Optical items, unless specified on the drawing, Serial Numbers shall be marked on the individual serial numbers will be applied in accordance with drawing and/or specification.
4080QC-0195	Technical Data Sheets	 Supplier will provide the most current technical data sheet for the product listed on the Purchase 0 The Technical Data Sheet will include: General Information including a description of the product and its use and, where applicable, thunder. Application instructions, including; Surface / substrate cleaning and preparation Recommended application equipment / techniques and environmental condition requirements Clean - up and other special requirements
4080QC-0210	Limited Life Items	 Supplier to identify manufacture/cure date and expiration date on each item in shipment. Shelf life must exceed 75% of total shelf life at time of receipt at L3Harris - KEO.
4080QC-0220	Non Destructive Testing Records	 The referenced specifications shall control the processes, procedures and operator certifications. Shall be subject to review and approval by an L3Harris - KEO QA representative. Detailed inspection/test record showing actuals shall accompany each item of order. Supplier's QA representative shall review and approve all inspection/test records. Supplier's QA representative must sign (with their title) and date all Inspection /test records.
4080QC-0220A	Approval of Nondestructive Testing (NDT) Procedures	 Supplier to submit a copy of their nondestructive testing procedure(s) thirty (30) days, prior to use, f herein apply to procedures used in fulfilling the requirements of this purchase order. The requirement • All nondestructive testing (reference KQA-0220) when required by this purchase order or sub fabrication/material specifications, drawings, etc.), must be performed in accordance with written provedures of nondestructive testing shall be approved by the buyer prior to perform thirty (30) days of supplier's receipt of a purchase order. Evidence of personnel qualifications shall be available upon request when such qualification is Procedures shall be provided to the buyer. Once the Nondestructive testing Procedure has been approved for the part number, the requirement procedure has been satisfied for future purchases of this part number, unless a revision change is may supplier is obligated to notify L3Harris - KEO of any changes made to the approved Nondestructive to the supplier is obligated to notify L3Harris - KEO of any changes made to the approved Nondestructive to the supplier is obligated to notify L3Harris - KEO of any changes made to the approved Nondestructive to the supplier is obligated to notify L3Harris - KEO of any changes made to the approved Nondestructive to the supplier is obligated to notify L3Harris - KEO of any changes made to the approved Nondestructive to the supplier is obligated to notify L3Harris - KEO of any changes made to the approved Nondestructive to the supplice is provided to notify L3Harris - KEO of any changes made to the approved Nondestructive to the supplice is provided to notify L3Harris - KEO of any changes made to the approved Nondestructive to the supplice is provided to notify L3Harris - KEO of any changes made to the approved Nondestructive to the supplice is provided to not if the provided to the supplice is provided to the provided to the provided to t
4080QC-0230	Records of Material Properties	 Supplier shall provide material property certifications and/or test reports. This includes finishes (e coatings) listed on the L3Harris - KEO documents. Reports must comply with and identify the material specification listed on the L3Harris - KEO docu material specification revision. Reports must be reviewed and approved by Supplier's Quality representative. All reports must have Quality Rep's signature, title and date of the approval.
4080QC-0240	Records of Heat Treatment	 Supplier to provide oven heat treat charts and data reports. Test reports must have a Quality representative's signature, title and date. Heat treat must be performed in accordance with procurement specification B/P and/or document
4080QC-0265	Certification of Shelf Life IAW MIL-HDBK-695	One copy of certification by seller that all O-rings, gaskets, packings or other elastomeric products in are installed prior to expiration of their shelf life. The shelf life shall be that specified in the latest re rubber products: recommended shelf life). This clause shall not apply to elastomers not listed in MI Verification of certification of conformance documents shall be signed and dated by the seller's auth complete or partial shipment under this order. Material will be rejected if the certification is not rec more than one container or package is included in the shipment, the certification shall be attached s identified on the outside.

dual packaging/container.

se Order.

, the Military or Commercial specification(s) the product is qualified

requirements

e, for L3Harris - KEO QA approval. The requirements contained ements are applicable to both suppliers and their subcontractor(s). sub-tier documents (i.e.,

n procedures.

ormance of any work and should be submitted for approval within

n is a requirement.

nent for nondestructive testing made to the documentation.

e testing Procedure.

(e.g. paint, anodize,

cuments and/or Purchase Order and must include the associated

ents referenced on the Purchase Order.

s in components or sub-assemblies being furnished under this order revision of MIL-HDBK-695 (Military Standardization Handbook, MIL-HDBK-695.

uthorized representative. The certification must be forwarded with a received. Certification shall be attached to the packing list. Where d securely to or placed in one container or package and clearly



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4080QC-0280	Casting Inspection	 L3Harris - KEO requires approval on NEW patterns, pattern CHANGES and MAJOR pattern REFURBISHI Supplier shall lay out one sample piece (Blued and Scribed) and record actuals on all drawing characte Multi cavity molds shall be identified with each cavity laid out. L3Harris - KEO QA Review & Approval of casting inspection required prior to production.
4080QC-0290	Circuit Card Assemblies	 Unless otherwise specified on the drawing: Soldering shall be in accordance with the requirements of J-STD-001 Class 3. IPC-A-610 Class 3 shall be the inspection criteria. Evidence of manufacturing and results of final inspection shall be delivered with each assembly/lot. Flying probe Test Automatic Optical Inspection (AOI) X-Ray (BGAs, QFNs, LGAs) Handling and Packaging of Moisture Sensitive Devices shall be in accordance with the requirements of
		 Printing Wiring Boards shall be listed on the Qualified Manufacturers List QML-31032 or Qualified Produspecified (applicable). Unless otherwise specified on the drawing: Printed Wiring Boards shall be fabricated and tested IAW MIL-PRF-31032. Solderability testing shall be in accordance with J-STD-003, Class 3. Lot acceptance data sheets listing the actual parameters tested in each case shall accompany each shi
4080QC-0300	Solderability	 Unless governed by a procuring document (JANTX part, DESC, etc.), Solderability of leads and terminal 002, Category 3. Leads, pins and terminals of components or parts susceptible to oxidation shall be protected by adequ shipment.
4080QC-0310	Certificate of Conformance from QPL Approved Manufacturer	 Material used for this order must be purchased from a supplier on the Government's Published QPL. A certificate of conformance from the manufacturer shall be supplied with each shipment of material Purchase Order. The certificate shall be signed and dated by the responsible manufacturer representative and shall cer meets all applicable specification requirements or military/industrial specification requirements. The certificate shall certify the seller is the Original Equipment Manufacturer (OEM) or Authorized Dist
4080QC-0320	MIL-PRF-31032/MIL-PRF-55110 Printed Wiring Boards	Supplier for Printing Wiring Boards shall be listed on the Qualified Manufacturers List QML-31032 or Qu Unless otherwise specified on the drawing: • Printed Wiring Boards shall be fabricated and tested IAW MIL-PRF-31032. • Solderability testing shall be in accordance with J-STD-003, Class 3. • Lot acceptance data sheets listing the actual parameters tested in each case shall accompany each shi
4080QC-0340	Calibration Test Report	 Supplier shall provide a calibration test report for each item. The report shall contain at a minimum, the Suppliers name, date, NIST test number traceable to stand and revision, L3Harris - KEO P.O. number, serial number and actual data sheets.
4080QC-0360	L3Harris - KEO Supplier Inspection Plan	Item requires Supplier to use L3Harris - KEO provided Inspection Plan. • Supplier shall use the L3Harris - KEO Inspection Plan(s) to record actual inspection results for items list • Supplier Inspection Plan(s) (SIP) shall accompany each shipment of material. • The completed SIP shall be legible and reproducible. • The completed SIP shall be dated and signed by the supplier's Quality Representative.
4080QC-0370	Traceability for Subsafe Items	 Supplier shall ensure that all parts are received with Yellow Subsafe tags. Traceability of unique identification numbers (heat no. or boule no.) must be maintained throughout to Supplier shall ensure that these tags remain with the parts throughout the manufacturing process.

BISHMENTS. racteristics.

ents of J-STD-033.

Products List QPL-55110 as

ich shipment. rminations (including wire) shall comply with requirements of J-STD-

adequate packaging to minimize oxidation during storage and

terial supplied against this

all certify that the material

ed Distributor.

or Qualified Products List QPL55110 as specified (applicable).

ich shipment.

standard, environmental conditions during calibration, part number

ms listed on Purchase Orders.

hout the manufacturing process.



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4080QC-0380	Certification of Compliance - Bearings	All bearings shall be in compliance with DFAR 252.225-7016.
		Certificate of Compliance shall indicate manufacturing origin.
4080QC-0390	Material Traceability Certification	All material must be heat or boule traceable.
		• All material must be marked with the heat or boule number referenced on the cert.
4080QC-0400	Software Release Notes	The supplier shall provide a document which contains the following:
		• A description of the release or change to the software (release notes).
		Validation checksum or equivalent.
		Date of release.Item identification number (part number).
4080QC-0410	Unique Item Identification (UII)	Supplier shall assign Unique Item Identifier (UII) to each item shipped under this order.
		 The Unique Item Identifier (UII) shall be permanent as defined by MIL-STD-130.
		• If not specified on the drawing, apply UII 2D Matrix IAW MIL-STD-130 by current item identification
		• If item identification is not otherwise specified, mark on the exterior of the part in a location that wi
		• Supplier shall include the verification report for the Unique Item Identification for each item shipped
		verified per ISO/IEC 15415. Additionally, Supplier shall maintain a copy of the verification report as a
4080QC-0430	Independent Distributor Purchase Order Clause - Active Components (Exhibit A)	Independent Distributor's procedures shall meet the requirements of IDEA-STD-1010 and AS6081.
1000000 0430		Quality Management System shall be certified to AS9120 and/or AS9100.
		Inspections and tests shall be conducted in accordance with IDEA-STD-1010 and AS6081. IDEA-STD-10
		precedence over AS6081 for conflicts in inspection methodology and defect criteria. Manufacturer sp
		as applicable. Recorded evidence of all testing performed shall be included with each shipment. Whe
		(C of Cs) shall also accompany each shipment.
		The following inspections and tests are required for active components as applicable based on device
		• 100% Visual Microscopy Inspection of all parts in the order is required to a magnification level capa
		includes visual inspection requirements for packaging. Sampling for mechanical dimensions shall be as
		• X-Ray inspection (100% of the lot)
		• XRF/RoHS (3 parts per lot date code)
		• Solderability testing per IPC/EIA J-STD-002 (3 parts per lot date code)
		Scanning Electron Microscopy (1 part per lot date code) Scalart Testing for Personalize (2 parts per lot date code)
		 Solvent Testing for Remarking (3 parts per lot date code) Solvent Testing for Posurfacing w/acctone (same 3 parts per lot date code)
		 Solvent Testing for Resurfacing w/acetone, (same 3 parts per lot date code) Scrape testing - only applicable to parts that cannot be heated solvent tested (same 3 parts per lot of a solvent tested)
		 Solvent Testing for Resurfacing (If pass acetone test) - Heated Solvent testing w/Dynasolve 750, (sal
		De-lid and Die Verification (3 parts per lot date code)
		 Flash and programmable memory devices shall be verified (100%) for clean memory, not pre-program
		If suspect/counterfeit parts are furnished under this subcontract and are found in any of the goods de
		Seller shall promptly replace such suspect/counterfeit parts with parts acceptable to the Buyer and th
		replacement of said parts as specified in the subcontract requirements or Distributor's insurance polic
		address grievances and detrimental impacts caused by suspect/counterfeit parts.
		Seller shall report all occurrences of Counterfeit parts to GIDEP and ERAI.

on marking requirements. will not affect the performance. oed under this order. The IUD shall have a passing grade when a quality record.
-1010 and the inspection and tests defined below shall take specifications and parameters shall be used for part requirements hen available, OEM/OCM and/or AD Certificates of Conformance
ce package type. pable of identifying nonconformities related to part size. This as defined by Seller's internal procedures.
ot date code) same 3 parts per lot date code)
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delivered hereunder, such items will be impounded by Buyer. The the Seller shall be liable for all costs relating to the removal and licies. Buyer reserves all contractual rights and remedies to



	KEO Clause Title	KEO Clause Description	
4080QC-0440	Independent Distributor Purchase Order Clause - Passive Components and Connectors (Exhibit B)	Independent Distributor procedures shall meet th Quality Management System shall be certified to Inspections and tests shall be conducted in accord precedence over AS6081 for conflicts in inspectio as applicable. Recorded evidence of all testing pe (C of Cs) shall also accompany each shipment. The following inspections and tests are required f 100% Visual Microscopy Inspection of all parts i includes visual inspection requirements for packa X-Ray inspection for non-glass diodes and tanta XRF/RoHS (3 parts per lot date code) Solderability testing per IPC/EIA J-STD-002 (3 pa Scanning Electron Microscopy (1 part per lot da Solvent Testing for Remarking (3 parts per lot d Solvent Testing for Resurfacing w/acetone, (sar Scrape testing - only applicable to parts that car Solvent Testing for Resurfacing (If pass acetone All electrical test reports shall contain a read/record	AS9120 and/or AS9100. dance with IDEA-STD-1010 and AS6081. IDEA-STD-1 n methodology and defect criteria. Manufacturer sp erformed shall be included with each shipment. Whe or passive components and connectors as applicable in the order is required to a magnification level capa ging. Sampling for mechanical dimensions shall be a fulum capacitors (100% of the lot) arts per lot date code) ate code)
		Component value tests are defined in the followir COMPONENT Resistors	ng chart: TEST DC resistance
		Capacitors	Capacitance
		Inductors	Inductance
		Transformers (open framed/wiring)	Winding-to-winding isolation, winding con inductance, turns or voltage ratio
		Connectors	Continuity on a 1% AQL sample of pins/co
		Relays	Contact and coil resistance

-1010 and the inspection and tests defined below shall take specifications and parameters shall be used for part requirements /hen available, OEM/OCM and/or AD Certificates of Conformance ble based on device package type: pable of identifying nonconformities related to part size. This e as defined by Seller's internal procedures. ot date code) (same 3 parts per lot date code) ch device tested. Electrical test shall nents required per ANSI/ASQ Z1.4 at ambient temperature, 1% ontinuity, winding connections delivered hereunder, such items will be impounded by Buyer. The the Seller shall be liable for all costs relating to the removal and olicies. Buyer reserves all contractual rights and remedies to



(EO Clause ID	KEO Clause Title	KEO Clause Description
1080QC-0450	KQA-0450 - Independent Distributor Purchase Order Clause - COTS Assemblies (Including	Independent Distributor procedures shall meet the requirements of IDEA-STD-1010 and AS6081.
	Electro mechanical items, Hard Drives, Network Equipment, and Peripheral Cards) (Exhibit C)	Quality Management System shall be certified to AS9120 and/or AS9100. Manufacturer specifications and parameters shall be used for part requirements as applicable. Record
		shipment. When available, OEM/OCM and/or AD Certificates of Conformance (C of Cs) shall also accor
		The following inspections and tests are required for general COTS assemblies, hard drives, network eq
		General COTS Assemblies
		 Packaging inspection (part number, evidence of tampering, etc.)
		Mechanical dimensions (3 parts minimum per lot)
		Visual Inspection (100%) for indications of prior usage/refurbishment/counterfeiting including dama
		Components visible on circuit cards when applicable
		Interface connector(s)/contact(s) Grimand out collicated and (or broken using (a) where applicable
		 Crimped, cut, spliced, pinched, and/or broken wire(s) where applicable Manufacturer label bar code information verification
		 Hard Drives Packaging inspection (part number, evidence of tampering, etc.)
		Mechanical dimensions (3 parts minimum per lot)
		 Visual Inspection (100%) for indications of prior usage/refurbishment/counterfeiting including dama
		o Components visible on circuit cards when applicable
		o Interface connector(s)/contact(s)
		o Casing
		Manufacturer label bar code information verification
		• 100% Power on test
		• 100% Read/write benchmark
		• 100% Self-Monitoring, Analysis, and Reporting Technology (S.M.A.R.T.) data pull (when applicable) o Verification of serial number
		o Total power on hours
		Serial numbers recorded
		Network Equipment
		Packaging inspection (part number, evidence of tampering, etc.)
		Mechanical dimensions (3 parts minimum per lot)
		• Visual Inspection (100%) for indications of prior usage/refurbishment/counterfeiting including dama
		Components visible on circuit cards when applicable
		 Interface connector(s)/contact(s)
		• Casing
		Manufacturer label bar code information verification
		 100% Power on test 100% Test RJ-45 ports (when applicable)
		Serial numbers recorded
		Peripheral Cards
		 Packaging inspection (part number, evidence of tampering, etc.)
		Mechanical dimensions (3 parts minimum per lot)
		• Visual Inspection (100%) for indications of prior usage/refurbishment/counterfeiting including dama
		o Components visible on circuit cards when applicable
		o Interface connector(s)/contact(s)
		Manufacturer label bar code information verification
		If suspect/counterfeit parts are furnished under this subcontract and are found in any of the goods de
		Seller shall promptly replace such suspect/counterfeit parts with parts acceptable to the Buyer and the
		replacement of said parts as specified in the subcontract requirements or Distributor's insurance polic
		address grievances and detrimental impacts caused by suspect/counterfeit parts.
		Seller shall report all occurrences of Counterfeit parts to GIDEP and ERAI

orded evidence of all testing performed shall be included with each company each shipment. equipment and peripheral cards:
mage to:
mage to:
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mage to:
mage to:
delivered hereunder, such items will be impounded by Buyer. The the Seller shall be liable for all costs relating to the removal and plicies. Buyer reserves all contractual rights and remedies to



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4080QC-0460	KEO Clause Title KQA-0460 - Test Lab Purchase Order Clause – Mechanical Parts and Materials (Exhibit D)	 KEO Clause Description Manufacturer specifications and parameters shall be used as applicable for part and material requirement included with each shipment. The following inspections and tests are required for mechanical parts and materials by an accredited thirm Packaging inspection (part number, evidence of tampering, etc.) Part/Packaging marking inspection for evidence of remarking or alterations (part number, mfg. name, t pieces per lot for part markings. Mechanical parts external visual inspection (100%) for damage, wear, contamination, or use. Mechanical parts dimensional inspection – selected critical dimensions shall be verified per manufacture
		 Plating Verification (e.g. XRF) - sample of 3 pieces per lot. Base material verification (certification of composition/chemical analysis, heat treatment, hardness test applicable per material specification) - sample of 1 piece per lot. Mechanical Item Test Verification (if required by the item specification) - sample of 1 piece per lot. Seller shall report all occurrences of Counterfeit parts to GIDEP and ERAI.

rements. Recorded evidence of all testing performed shall be

ed third party testing facility:

ame, trademark or logo, lot or date code, grade, etc.) - sample of 3

facturer specifications on a sample of 3 pieces per lot.

ess testing, tensile strength, torque testing, magnetic particle, etc. as