

LISTING OF QA CLAUSES

SORTED BY QA CLAUSE

QA CODE	DESCRIPTION
QA04A	TEST AND INSPECTION DATA SHALL BE RETAINED FOR 3 YEARS.
QA04B	TEST AND INSPECTION DATA SHALL BE RETAINED FOR 5 YEARS.
QA04C	TEST AND INSPECTION DATA SHALL BE RETAINED FOR 8 YEARS.
QA04D	TEST, INSPECTION, AND ALL DATA RELATING TO THE MANUFACTURE OF THE MATERIAL ON THIS PURCHASE ORDER MUST BE RETAINED FOR NOT LESS THEN TEN (10) YEARS.
QA06	GOVERNMENT INSPECTION IS REQUIRED PRIOR TO SHIPMENT FROM YOUR PLANT. UPON RECEIPT OF THIS ORDER, PROMPTLY NOTIFY THE GOVERNMENT REPRESENTATIVE WHO NORMALLY SERVICES YOUR PLANT SO THAT APPROPRIATE PLANNING FOR GOVERNMENT INSPECTION CAN BE ACCOMPLISHED.
QA11	MATERIAL REVIEW AUTHORITY IS NOT AUTHORIZED FOR REPAIR OR USE-AS-IS DECISIONS UNLESS EXPRESSLY DELEGATED IN WRITING.
QA12	SELLER SHALL PERMIT ACCESS TO L3TE QUALITY ASSURANCE, OUR CUSTOMER, OR ANY REGULATORY AUTHORITY TO DETERMINE THE ADEQUACY OF THE SELLERS QUALITY SYSTEM, OR MATERIAL QUALITY AT ALL PRODUCTION STATES OF THE MATERIALS BEING SUPPLIED.
QA15	QA15-SELLER MUST MAINTAIN A QUALITY SYSTEM THAT MEETS MIL-I-45208A/ISO-9002, OR HAVE SUCCESSFULLY PASSED AN AUDIT BY L-3 COMMUNICATIONS TELEMETRY EAST.
QA21	NOTIFY L3TE THAT THE FIRST PIECE IS COMPLETED, AND REQUEST AUTHORIZATION TO PROCEED.
QA22	ALL CHANGES TO DRAWINGS, PROCEDURES AND OPERATING REQUIREMENTS OF THE ITEMS ON THE PURCHASE ORDER MUST BE APPROVED IN WRITING BY AYDIN.
QA23	NOTICE OF TIME AND ENVIRONMENTAL SENSITIVE ITEMS MUST ACCOMPANY EACH SHIPMENT INDICATING SPECIAL STORAGE REQUIREMENTS AND EXPIRATION DATE. THIS INFORMATION MUST ALSO BE RECORDED ON THE EQUIPMENT/MATERIALS OR PACKAGE LABEL. TIME SENSITIVE ITEMS MUST HAVE A MINIMUM OF 75% REMAINING LIFE ON RECEIPT.
QA24	TEST/INSPECTION PROCEDURES, CONTROLLED BY THE SUPPLIER, MUST BE APPROVED BY L3CTE BEFORE START OF TEST/INSPECTION.
QA25	(DELETED)
QA26	ATTRIBUTE DATA MUST ACCOMPANY EACH SHIPMENT, REFERENCING PART IDENTIFICATION, SERIAL NUMBER, LOT IDENTIFICATION AND TEST.
QA27	ACTUAL TEST READINGS MUST ACCOMPANY EACH SHIPMENT, REFERENCING PART IDENTIFICATION, SERIAL NUMBER, LOT IDENTIFICATION AND TEST.
QA29	LCTE SOURCE INSPECTION IS INVOKED ON THIS ORDER AS SPECIFIED IN QWI305.
QA29A	L3TE PRE-CLOSE SOURCE INSPECTION IS INVOKED ON THIS PURCHASE ORDER. HOWEVER, FINAL ACCEPTANCE IS PERFORMED AT L3TE.
QA30	SELLER SHALL IDENTIFY TRUE MANUFACTURER'S LOT NUMBER.
QA32	DEVICES DELIVERED MUST BE IDENTIFIED TO THE WAFER LOT. ONLY THOSE WAFER LOTS APPROVED IN ADVANCE BY L3TE QUALITY ASSURANCE MAY BE USED.
QA33	LOT-DATE-CODES SHALL NOT EXCEED TWO (2) YEARS AT THE TIME OF RECEIPT AT L3CTE.
QA34	ALL DEVICES DELIVERED UNDER THE SAME LINE ITEM SHALL BE FROM THE SAME LOT-DATE-CODE. PARTIAL SHIPMENTS AGAINST THE SAME PO LINE ITEM MUST BE FROM THE SAME LOT DATE-CODE.
QA34B	DEVICES UNDER THE SAME LINE ITEM MUST BE FROM THE SAME LDC. MULTIPLE LDC'S MUST BE SEGREGATED/IDENTIFIED BY LDC AND QUANTITY.
QA35	QA35 ESD PROTECTION-DEVICES SUBJECT TO ESD DEGRADATION MUST BE PACKAGED TO PREVENT ESD DAMAGE.
QA36	A CERTIFICATE OF TRACEABILITY IN ACCORDANCE WITH MIL-PRF-19500 SHALL BE SUPPLIED FOR EACH SHIPMENT.
QA37	DESTRUCTIVE PHYSICAL ANALYSIS (DPA) AS SPECIFIED IN THE CONTROLLING DOCUMENTS IS THE RESPONSIBILITY OF L3TE AND NOT THE SELLER.
QA38	A C OF C IS REQ'D WITH EACH SHIPMENT AND MUST REFERENCE L3TE PO#.
QA39	A CERTIFICATE OF TRACEABILITY IN ACCORDANCE WITH MIL-PRF-38535 SHALL BE SUPPLIED FOR EACH SHIPMENT.

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QA40	ALL RAW MATERIAL, SUCH AS METAL PLATE AND BAR STOCK, WIRE, ELECTRICAL POTTING COMPOUNDS, ADHESIVES AND GASKET MATERIAL USED IN THE FABRICATION OF PARTS, MATERIAL OR SUPPLIES PROCURED UNDER THIS L3TE PURCHASE ORDER, SHALL BE ACCOMPANIED (EACH SHIPMENT) WITH COPIES OF THE ORIGINAL MANUFACTURER'S ACTUAL MATERIAL/MILL CERTIFICATION OF CHEMICAL AND PHYSICAL PROPERTIES.
QA41A	A SEPERATE CERTIFICATE OF CONFORMANCE IS REQUIRED TO BE SUPPLIED TO L3TE (EACH SHIPMENT) STATING THAT THE REQUIREMENTS OF THE SPECIFIED MATERIAL FINISHING OR COATING HAVE BEEN ACHIEVED AND THE RESULTS/CONDITIONS ARE DOCUMENTED.
QA43	QA43 MATERIAL CONTROL, SUBCONTRACT(DELETED)
QA44	QA44 WORKMANSHIP, SUBCONTRACTED EQUIPMENT(DELETED)
QA45A	QA45A SOLDERING REQUIREMENTS, SUBCONTRACTED EQUIPMENT(DELETED)
QA45B	QA45B SOLDERING REQUIREMENTS, SUBCONTRACTED EQUIPMENT(DELETED)
QA46	QA46 SOLDERING REQUIREMENTS, SUBCONTRACTED EQUIPMENT(DELETED)
QA47	PRINTED WIRING BOARDS PURCHASED UNDER THIS AYDIN TELEMETRY PURCHASE ORDER SHALL BE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF MIL-P-55110 UNLESS OTHERWISE STATED ON THE MASTER DRAWING. MULTI LAYER BOARDS REQUIRE ETCHBACK. PWB'S USING TEFLON BASE MATERIAL MAY USE IPC-HF-318 INSTEAD OF MIL-P-55110. WHEN DELIVERED IN PANEL FORM THERE SHALL BE NO DEFECTIVE CIRCUITS. PART NUMBERS STARTING WITH 400 & 404 DO NOT REQUIRE MICROSECTIONING. LPI SOLDER MASK PER IPC-SM-840 TYPE B, CLASS 3 IS TO BE USED ON TYPE 3 PWB'S IN LIEU OF ANY DRY FILM SOLDER MASK REQUIREMENT ON THE DRAWING. FR5 (NATURAL) PER MIL-S-13949 IS AN ACCEPTABLE SUBSTITUTE FOR FR5 (WHITE). 100% ELECTRICAL TESTING TO THE NET LIST DATA IS REQUIRED. IF THE BOARDS ARE 100% THRU HOLE COMPARISON TESTING IS ACCEPTABLE. GFG MATERIAL SHALL BE UTILIZED IN PLACE OF GFN MATERIAL ON MULTILAYER (3 OR MORE) 5400XXXX SERIES PWB'S.
QA47RF	DELETED
QA49	THIS IS A RATED ORDER CERTIFIED FOR USE UNDER THE DEFENSE PRIORITIES AND ALLOCATIONS SYTEMS (DPAS) (15CFR350). YOU ARE REQUIRED TO FOLLOW THE PROVISIONS OF DPAS AND OF ALL OTHER APPLICABLE REGULATIONS AND ORDERS IN OBTAINING CONTROLLED MATERIALS AND OTHER PRODUCTS AND MATERIALS NEEDED TO FILL THIS ORDER.
QA51	ITEMS ON THIS PO MUST MEET REQ. OF MIL-STD-202,METHOD 208, INCLUDING STEAM AGING.
QA53	ALL DIMENSIONAL MEASUREMENTS SHOWN ON THE L3TE DRAWING ARE TO BE RECORDED AND MUST ACCOMPANY EACH ITEM OF EACH SHIPMENT.
QA54	THE SUPPLIER IS HEREBY REQUIRED TO NOTIFY L3TE PROCUREMENT IN WRITING PRIOR TO PERFORMING ANY OF THE WORK HEREIN REQUIRED IN FACILITIES OTHER THAN THOSE CURRENTLY APPROVED.
QA56A	ALL PASSIVE CHIP DEVICES SUPPLIED ON THIS ORDER SHALL BE INSPECTED BY THE SUPPLIER AND SHALL MEET THE VISUAL INSPECTION CRITERIA DEFINED IN L3TE DOCUMENT NO. 65001772.
QA57	PART IS BEING PROCURED FOR A SURFACE MOUNT PROCESS. MUST BE SUPPLIED IN STICK OR T/R FORMAT(PER EAI STD 481)ON 4 OR 7 REELS.
QA59	FOR EACH NEW (OR NEW REVISION BOARD, BARE BOARD MANUFACTURERS ARE TO SUPPLY ONE SCRAP BOARD ALONG WITH EACH PRODUCTION ORDER. THIS ADDITIONAL BOARD IS REQUIRED BY PROCESS ENGINEERING TO TAKE TEMPERATURE PROFILE.
QA59A	FOR EACH NEW (OR NEW REVISION) BOARD, ONE BOARD FROM THIS ORDER IS REQUIRED BY PROCESS ENGINEERING TO TAKE TEMPERATURE PROFILES. SUPPLIER IS PERMITTED TO SUPPLY A SCRAP BOARD FROM THIS PRODUCTION LOT AT NO COST, AND TO REDUCE THE ORDER ACCORDINGLY. IF BOARDS ARE SUPPLIED IN PANEL FORM, ONE (1) X-OUT IS ACCEPTABLE AS THE SCRAP BOARD. AV INCOMING INSPECTION SHALL FOREWARD THE SCRAP BOARD DIRECTLY TO SYSTEMS PROCESS ENGINEERING.
QA59B	FOR EACH NEW (OR NEW REVISION) BOARD, TWO BOARDS FROM THIS ORDER ARE REQUIRED BY PROCESS ENGINEERING TO TAKE TEMPERATURE PROFILES. SUPPLIER IS PERMITTED TO SUPPLY SCRAP BOARDS FROM THIS PRODUCTION LOT AT NO COST, AND TO REDUCE THE ORDER ACCORDINGLY. IF BOARDS ARE SUPPLIED IN PANEL FORM, TWO (2) X-OUT'S ARE ACCEPTABLE AS THE SCRAP BOARDS. INCOMING INSPECTION SHALL FOREWARD THE SCRAP BOARDS DIRECTLY TO SYSTEMS PROCESS ENGINEERING.
QA60	COMPONENTS UNDER THIS PURCHASE ORDER ARE MOISTURE SENSITIVE AND MUST BE PACKAGED APPROPRIATELY BY THE SUPPLIER. INTERNAL PROCEDURE 65001907 MUST BE ADHERED TO AFTER RECEIPT AT L3CTE.
QA61	COPIES OF STATISTICAL DATA MAY BE FURNISHED WITH THIS ORDER FOR ALL ITEMS MANUFACTURED WITH STATISTICAL PROCESS CONTROL TECHNIQUES.
QA62	ETCHBACK PER MIL-PRF-55110 IS REQUIRED FOR ALL MULTI LAYER PRINTED CIRCUIT BOARDS.

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QA63	EACH SHIPMENT VENDOR WILL SUPPLY COUPONS (NICKEL & SILVER) OR TRACEABILITY INFO TO PREVIOUSLY SUPPLIED COUPONS. IF COUPONS ARE NOT AVAILABLE, C OF C REQUIRED ALL PIECES WERE HEATED TO 200 DEGREES C FOR 20 MINUTES.
QA64	PACKAGE CANNOT CONTAIN ANY PAPER, CARD BOARD OR PLASTIC. USE ANTI-STATIC FOAM/BAGS. SHIPPING CONTAINERS ARE EXCLUDED.
QA65	MATERIAL MAY BE USED IN MANNED SPACE FLIGHTS.
QA66	THE SUPPLIER SHALL USE IPC-A-610 OR ANSI/J-STD-001 CLASS III WORKMANSHIP STANDARD INSTEAD OF ANY L3TE WORKMANSHIP STANDARD REFERENCED ON THE ASSEMBLY DRAWING.
QA67	PRINTED CIRCUIT BOARDS SHALL BE ELECTRICALLY TESTED TO THE NET LIST DATA.
QA68	MECHANICAL HARDWARE DELIVERED UNDER THIS PO MUST BE INDIVIDUALLY WRAPPED (REF.QA64)PRIOR TO PLACING IN SHIPPING CONTAINER.
QA69	AYDIN TELEMETRY SHALL BE MARKED ON PANELS VS. OLD NAMES.
QA70	DELETED.
QA71	ALL ELECTRONIC HARDWARE ORDERED HEREIN IS REQUIRED TO MEET ENVIRONMENTAL STRESS SCREENING AT THE PART LEVEL ON A 100% BASIS. THE ENVIRONMENTAL STRESS SCREENING TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE GUIDELINES OF TASK 301 PER MIL-STD-785. THE SUPPLIER SHALL GUARANTEE THAT HARDWARE SUPPLIED ON THIS PURCHASE ORDER WILL SUCCESSFULLY PASS THE ENVIRONMENTAL STRESS SCREENING TESTS AND INSPECTIONS.
QA72	THE SUPPLIER OF THIS PACKAGE MUST SUPPLY L3TE SAMPLES OF THE ACTUAL LEAD MATERIAL USED TO FABRICATE THIS DEVICE.
QA73	PRODUCT RETURNED FROM L3TE FOR REPAIR WILL REQUIRE A FAILURE ANALYSIS. THE PART MANUFACTURER MUST DEFINE AND REPORT FAILURE MODE AND ACTION TAKEN TO CORRECT THE DEFICIENCY.
QA74	MATERIAL RECEIVED AT L3TE MUST HAVE AN ANALYSIS ESTABLISHING THE CHEMICAL COMPOSITION. THE ANALYSIS MUST VERIFY COMPLIANCE TO THE PROCUREMENT DOCUMENT, PURCHASE ORDER, AND THE RAW MATERIAL SPECIFICATION.
QA75	NO PURE TIN FINISH (OR PLATING) IS ALLOWED ON ANY ELECTRICAL OR MECHANICAL COMPONENT. IT IS THE SUPPLIER'S RESPONSIBILITY TO VERIFY THAT THE FINISH USED ON ANY COMPONENT IS NOT PURE TIN. THAT IS, IT MUST CONTAIN A MINIMUM OF 3% LEAD. A C OF C IS REQUIRED WITH EACH SHIPMENT INDICATING COMPLIANCE WITH THIS QA REQUIREMENT. PURE TIN FINISH COMPONENTS MAY ONLY BE PROVIDED ON BY SPECIAL WAIVER THAT MUST BE OBTAINED FROM L-3TE PRIOR TO SHIPMENT.
QA76	ANY SPECIAL PROCESS AND SUBCONTRACTOR MUST BE APPROVED IN ADVANCE BY L-3 TELEMETRY-EAST AND THE CUSTOMER BEFORE ANY WORK CAN BE PERFORMED. SPECIAL PROCESSES INCLUDE: PLATING AND CHROMATE CONVERSION. DOES NOT INCLUDE MACHINING, SOLDERING OR PRINT WIRING BOARD FABRICATION, WHICH CAN BE VERIFIED BY INSPECTION MEASUREMENTS OR OTHER TESTS.
QA77	A MICROSECTION REPORT AND COUPON IS REQUIRED FOR EACH LOT/DATE CODE OF PWB ORDERED.
QA78	WHEN THIS ORDER INCLUDES PARTS CONTAINING SPECIALTY METALS, DFAR 252.225-7014 AND ALTERNATE I APPLY FOR PREFERENCE OF DOMESTIC SPECIALTY METALS. THIS REQUIRES ANY COMPONENT, FASTENER, SHEET METAL, RAW MATERIAL OR FABRICATED METALWORK CONTAINING A SPECIALTY METAL TO BE MELTED IN THE U.S. OR A QUALIFYING COUNTRY. THIS REQUIREMENT MUST BE FLOWED DOWN TO ALL SUBCONTRACTS AND PURCHASE ORDERS. SPECIALTY METALS ARE DEFINED IN THE DFAR, AND INCLUDE STAINLESS STEEL, TITANIUM AND ZIRCONIUM (OR ALLOYS), AND IRON/NICKEL ALLOYS CONTAINING OTHER METALS IN EXCESS OF 10%. THIS REQUIREMENT DOES NOT APPLY TO ALUMINUM BASED ALLOYS.
QA79	THE SUPPLIER SHALL PROVIDE NO LESS THAN THREE BUSINESS DAYS ADVANCE NOTIFICATION TO L3TE PROCUREMENT REPRESENTATIVE BEFORE ITEMS ARE READY FOR START OF PRODUCTION. THE SUPPLIER SHALL NOT PROCEED WITHOUT L3TE WRITTEN AUTHORIZATION TO PROCEED AFTER REVIEW OF PROCESS DURING L3TE VISIT.
QA80	IF SUSPECT/COUNTERFEIT PARTS ARE FURNISHED UNDER THIS ORDER OR ARE FOUND IN ANY OF THE GOODS DELIVERED HEREUNDER, SUCH ITEMS WILL BE IMPOUNDED BY L3. THE SELLER SHALL PROMPTLY REPLACE SUCH SUSPECT/COUNTERFEIT PARTS WITH PARTS ACCEPTABLE TO THE L3 AND THE SELLER SHALL BE LIABLE FOR ALL COSTS, RELATING TO THE REMOVAL AND REPLACEMENT OF SAID PARTS. TO FURTHER MITIGATE THE POSSIBILITY OF THE INADVERTENT USE OF COUNTERFEIT PARTS, THE SELLER SHALL ONLY PURCHASE COMPONENTS AND PARTS PROCURED DIRECTLY FROM THE ORIGINAL EQUIPMENT MANUFACTURER (OEMS), THROUGH THE OEM'S AUTHORIZED DISTRIBUTOR CHAIN, OR IF THROUGH AN INDEPENDENT DISTRIBUTOR, SELLER MUST RECEIVE APPROVAL IN WRITING FROM L3. L3 RESERVES ALL CONTRACTUAL RIGHTS AND REMEDIES TO ADDRESS GRIEVANCES AND DETRIMENTAL IMPACTS CAUSED BY SUSPECT/COUNTERFEIT PARTS.
QA81	SUPPLIER SHALL PERIODICALLY VALIDATE TEST REPORTS AND/OR PERFORM TESTING TO VALIDATE RAW MATERIALS AS WELL AS RAW MATERIALS USED TO PRODUCE FABRICATED (MACHINED) PURCHASES. THE SUPPLIER SHALL MAINTAIN THE RAW MATERIAL VALIDATION RESULTS AND PROVIDE OBJECTIVE EVIDENCE UPON REQUEST.

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QP18	THE PARTS SUPPLIED ON THIS PURCHASE ORDER MAY ONLY BE OBTAINED DIRECTLY FROM THE MANUFACTURER OR AN AUTHORIZED DISTRIBUTOR.
