

QA CLAUSES LISTING

ID	QA04A
TEXT	TEST AND INSPECTION DATA SHALL BE RETAINED FOR 3 YEARS.
ID	QA04B
TEXT	TEST AND INSPECTION DATA SHALL BE RETAINED FOR 5 YEARS.
ID	QA04C
TEXT	TEST AND INSPECTION DATA SHALL BE RETAINED FOR 8 YEARS.
ID	QA04D
TITLE	DATA RETENTION
TEXT	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.
ID	QA06
TITLE	GOVERNMENT INSPECTION
TEXT	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.
ID	QA11
TITLE	MRB AUTHORITY
TEXT	MATERIAL REVIEW AUTHORITY IS NOT AUTHORIZED FOR REPAIR OR USE-AS-IS DECISIONS UNLESS EXPRESSLY DELEGATED IN WRITING.
ID	QA12
TITLE	QUALITY AUDITS
TEXT	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.
ID	QA15
TITLE	QUALITY SYSTEM
TEXT	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.
ID	QA21
TITLE	FIRST PIECE APPROVAL
TEXT	NOTIFY L3TE THAT THE FIRST PIECE IS COMPLETED, AND REQUEST AUTHORIZATION TO PROCEED.
ID	QA22
TITLE	CONFIGURATION CONTROL
TEXT	ALL CHANGES TO DRAWINGS, PROCEDURES AND OPERATING REQUIREMENTS OF THE ITEMS ON THE PURCHASE ORDER MUST BE APPROVED IN WRITING BY AYDIN.

ID	QA2
TITLE	TIME AND ENVIRONMENT SENSITIVE ITEMS
TEXT	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.
ID	QA24
TITLE	INSPECTION/TEST PROCEDURES
TEXT	TEST/INSPECTION PROCEDURES, CONTROLLED BY THE SUPPLIER, MUST BE APPROVED BY L3CTE BEFORE START OF TEST/INSPECTION.
ID	QA25
TEXT	(DELETED)
ID	QA26
TITLE	TEST DATA
TEXT	ATTRIBUTE DATA MUST ACCOMPANY EACH SHIPMENT, REFERENCING PART IDENTIFICATION, SERIAL NUMBER, LOT IDENTIFICATION AND TEST.
ID	QA27
TITLE	END
TEXT	ACTUAL TEST READINGS MUST ACCOMPANY EACH SHIPMENT, REFERENCING PART IDENTIFICATION, SERIAL NUMBER, LOT IDENTIFICATION AND TEST.
ID	QA29
TITLE	SOURCE INSPECTION
TEXT	LC TE SOURCE INSPECTION IS INVOKED ON THIS ORDER AS SPECIFIED IN QWI305.
ID	QA29A
TITLE	SOURCE INSPECTION/PRE-CLOSE
TEXT	L3TE PRE-CLOSE SOURCE INSPECTION IS INVOKED ON THIS PURCHASE ORDER. HOWEVER, FINAL ACCEPTANCE IS PERFORMED AT L3TE.
ID	QA30
TITLE	TRACEABILITY
TEXT	SELLER SHALL IDENTIFY TRUE MANUFACTURER'S LOT NUMBER.
ID	QA32
TITLE	WAFER LOT TRACEABILITY
TEXT	DEVICES DELIVERED MUST BE IDENTIFIED TO THE WAFER LOT. ONLY THOSE WAFER LOTS APPROVED IN ADVANCE BY L3TE QUALITY ASSURANCE MAY BE USED.
ID	QA33
TITLE	SHELF LIFE CONTROL
TEXT	LOT-DATE-CODES SHALL NOT EXCEED TWO (2) YEARS AT THE TIME OF RECEIPT AT L3CTE.

ID	QA34
TITLE	NO MIXED LOT DATE-CODES ALLOWED
TEXT	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.
ID	QA34B
TITLE	MIXED-LOT-DATE-CODES
TEXT	DEVICES UNDER THE SAME LINE ITEM MUST BE FROM THE SAME LDC. MULTIPLE LDC'S MUST BE SEGREGATED/IDENTIFIED BY LDC AND QUANTITY.
ID	QA35
TITLE	ESD PROTECTION
TEXT	QA35 ESD PROTECTION-DEVICES SUBJECT TO ESD DEGRADATION MUST BE PACKAGED TO PREVENT ESD DAMAGE.
ID	QA36
TITLE	CERTIFICATE OF TRACEABILITY (JAN DEVICES)
TEXT	A CERTIFICATE OF TRACEABILITY IN ACCORDANCE WITH MIL-PRF-19500 SHALL BE SUPPLIED FOR EACH SHIPMENT.
ID	QA37
TEXT	DESTRUCTIVE PHYSICAL ANALYSIS (DPA) AS SPECIFIED IN THE CONTROLLING DOCUMENTS IS THE RESPONSIBILITY OF L3TE AND NOT THE SELLER.
ID	QA38
TITLE	CERTIFICATION
TEXT	A C OF C IS REQ'D WITH EACH SHIPMENT AND MUST REFERENCE L3TE PO#.
ID	QA39
TITLE	CERTIFICATE OF TRACEABILITY (JAN MICROCIRCUITS)
TEXT	A CERTIFICATE OF TRACEABILITY IN ACCORDANCE WITH MIL-PRF-38535 SHALL BE SUPPLIED FOR EACH SHIPMENT.
ID	QA40
TITLE	MATERIAL VERIFICATION
TEXT	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.
ID	QA41A
TITLE	MATERIAL FINISHING/CHEMICAL COATING CERTIFICATION
TEXT	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.
ID	QA43
TEXT	QA43 MATERIAL CONTROL, SUBCONTRACT(DELETED)
ID	QA44
TEXT	QA44 WORKMANSHIP, SUBCONTRACTED EQUIPMENT(DELETED)

ID QA45A
TEXT QA45A SOLDERING REQUIREMENTS, SUBCONTRACTED EQUIPMENT(DELETED)

ID QA45B
TEXT QA45B SOLDERING REQUIREMENTS, SUBCONTRACTED EQUIPMENT(DELETED)

ID QA46
TEXT QA46 SOLDERING REQUIREMENTS, SUBCONTRACTED EQUIPMENT(DELETED)

ID QA47
TITLE PRINTED WIRING BOARD PROCUREMENT
TEXT 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-1394 9 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.

ID QA47RF
TITLE DELETED
TEXT DELETED

ID QA49
TITLE GOVERNMENT PRIORITY RATING
TEXT THIS IS A RATED ORDER CERTIFIED FOR USE UNDER THE DEFENSE PRIORITIES AND ALLOCATIONS SYSTEMS (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.

ID QA51
TITLE SOLDERABILITY
TEXT ITEMS ON THIS PO MUST MEET REQ. OF MIL-STD-202, METHOD 208, INCLUDING STEAM AGING.

ID QA53
TITLE INSPECTION DATA
TEXT ALL DIMENSIONAL MEASUREMENTS SHOWN ON THE L3TE DRAWING ARE TO BE RECORDED AND MUST ACCOMPANY EACH ITEM OF EACH SHIPMENT.

ID QA54
TITLE FACILITY LOCATION (D-5)
TEXT 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.

ID	QA56A
TITLE	INSPECTION CRITERIA, PASSIVE CHIP DEVICES
TEXT	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.
ID	QA57
TITLE	SURFACE MOUNT REQUIREMENT
TEXT	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.
ID	QA59
TITLE	PRINTED CIRCUIT BOARD PROCUREMENT
TEXT	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.
ID	QA59A
TITLE	PRINTED CIRCUIT BOARD PROCUREMENT
TEXT	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.
ID	QA59B
TITLE	PRINTED CIRCUIT BOARD PROCUREMENT
TEXT	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.
ID	QA60
TITLE	MOISTURE SENSITIVE COMPONENT
TEXT	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.
ID	QA61
TITLE	SUBMISSION OF STATISTICAL DATA
TEXT	COPIES OF STATISTICAL DATA MAY BE FURNISHED WITH THIS ORDER FOR ALL ITEMS MANUFACTURED WITH STATISTICAL PROCESS CONTROL TECHNIQUES.
ID	QA62
TITLE	MULTI LAYER PRINTED CIRCUIT BOARDS
TEXT	ETCHBACK PER MIL-PRF-55110 IS REQUIRED FOR ALL MULTI LAYER PRINTED CIRCUIT BOARDS.

ID	QA63
TITLE	PLATING COUPONS
TEXT	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.
ID	QA64
TITLE	PACKAGING-NO INSULATIVE MATERIALS
TEXT	PACKAGE CANNOT CONTAIN ANY PAPER, CARD BOARD OR PLASTIC. USE ANTI-STATIC FOAM/BAGS. SHIPPING CONTAINERS ARE EXCLUDED.
ID	QA65
TITLE	MANNED SPACE FLIGHT AWARENESS
TEXT	MATERIAL MAY BE USED IN MANNED SPACE FLIGHTS.
ID	QA66
TITLE	CONTRACT MANUFACTURING WORKMANSHIP STANDARD
TEXT	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.
ID	QA67
TITLE	PRINTED CIRCUIT BOARDS
TEXT	PRINTED CIRCUIT BOARDS SHALL BE ELECTRICALLY TESTED TO THE NET LIST DATA.
ID	QA68
TITLE	INDIVIDUAL PACKAGING-MECHANICAL HARDWARE
TEXT	MECHANICAL HARDWARE DELIVERED UNDER THIS PO MUST BE INDIVIDUALLY WRAPPED (REF.QA64)PRIOR TO PLACING IN SHIPPING CONTAINER.
ID	QA69
TITLE	PANEL MARKING
TEXT	AYDIN TELEMETRY SHALL BE MARKED ON PANELS VS. OLD NAMES.
ID	QA70
TITLE	Y2K COMPLIANCE
TEXT	DELETED.
ID	QA71
TITLE	ENVIRONMENTAL STRESS SCREENING
TEXT	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.
ID	QA72
TITLE	LEAD MATERIAL
TEXT	THE SUPPLIER OF THIS PACKAGE MUST SUPPLY L3TE SAMPLES OF THE ACTUAL LEAD MATERIAL USED TO FABRICATE THIS DEVICE.

ID	QA73
TITLE	FAILURE ANALYSIS
TEXT	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.
ID	QA74
TITLE	MATERIAL ANALYSIS
TEXT	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.
ID	QA75
TITLE	NO PURE TIN
TEXT	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.
ID	QA76
TITLE	SPECIAL PROCESSES APPROVAL
TEXT	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.
ID	QA77
TITLE	MICROSECTION REPORT AND COUPON
TEXT	A MICROSECTION REPORT AND COUPON IS REQUIRED FOR EACH LOT/DATE CODE OF PWB ORDERED.