REVISIONS 1006324 DESCRIPTION 19689 C. VENDOR SUPPLIED DATA: EACH SHIPMENT SHALL BE ACCOMPANIED BY INITIME RELEASE CLASSA PERTORR THE FOLLOWING DATA: REQUIREMENTS: (1) CERTIFICATE OF COMPLIANCE TO ND 1015404. (2) CERTIFICATE OF COMPLIANCE WITH LEAD MATERIAL. 1. GENERAL: (3) CERTIFICATE OF COMPLIANCE WITH SPECIAL CONDITIONING. A. INTERPRET DRAWING IN ACCORDANCE WITH THE STANDARDS PRE-(4) TEST DATA FROM SPECIAL CONDITIONING. SCRIBED BY MIL-D-70327. 3. DESIGN: B. UNITS SHALL CONFORM TO THE REQUIREMENTS OF MIL-C-15305 TYPE LT4K, GRADE 1. CLASS B AS MODIFIED BY THE REQUIREMENTS A. OPERATING LIFE: 2000 HOURS MINIMUM AT MAXIMUM CURRENT AND OF THIS DRAWING. TEMPERATURE RATINGS. THE ADJUSTMENT SCREW SHALL BE CAPABLE OF 100 CYCLES OF OPERATION. ONE CYCLE EQUALS ADJUSTMENT ALL C. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS THE WAY IN AND ALL THE WAY OUT. CONTAINED IN ND 1015404, CLASS 2. CONSTRUCTION: PLASTIC CASE WITH AN ALUMINUM (LEAD SCREW) D. UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION REQUIRE-TUNING SHAFT WHICH CONTROLS THE BONDED FERROUS SLUG. THE MENTS OF ND 1002060 EXCEPT THAT IMMERSION PER MIL-C-15305 UNIT SHALL HAVE AN ADEQUATE "O" RING SEAL ON THE TUNING SHALL BE METHOD A (NO SALT). SHAFT TO PREVENT POTTING AND MOISTURE PENETRATION. UNITS SHALL BE PERMANENTLY AND LEGIBLY MARKED, PER OPERATING TEMPERATURE RANGE: 0°C TO +70°C. ND 1002019, WITH THE INDUCTANCE VALUE RANGE, DC RESISTANCE, AND NASA PART NUMBER (DRAWING NUMBER AND REVISION LETTER). D. CURRENT RATING (MAXIMUM): 450 MILLIAMPERES. UNDER THIS CONDITION THE TEMPERATURE RISE WILL BE 35°C SO THE AMBIENT F. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH SLOTTED TUNING SEE DETAIL A-SHOULD NOT EXCEED 70°C. ND 1002215. CLASS I. CODE 1. SHAFT (1) MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE E. LEAD FATIGUE: EACH LEAD SHALL BE CAPABLE OF MEETING THE PULL MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE AND BEND TEST. HOWEVER THE SAME LEAD SHALL NOT BE TESTED FOR METHODS OF MARKING AS SPECIFIED IN NO 1002215. BOTH. NO MECHANICAL DAMAGE OR LACK OF ELECTRICAL PERFORM-750 MAX -ANCE SHALL BE EVIDENCED AFTER THE TEST. ACCEPTANCE AND INSPECTION: (100% UNLESS OTHERWISE SPECIFIED) PULL TEST: AN AXIAL PULL OF FOUR (4) PCUNDS MINIMUM. A. MECHANICAL PROPERTIES: .340 BEND TEST (DISCARD TESTED UNITS): HOLD THE COMPONENT IN (1) BIMENSIONS: AS DELINEATED HEREIN. SUCH A MANNER THAT A TWO (2) POUND WEIGHT MAY BE SUSPENDED IN (2) LEAD MATERIAL: WELDABLE, GOLD PLATED IRON-NICKEL AN AXIAL DIRECTION FROM THE LEAD UNDER TEST. THE BEND CYCLE ALLOY (DUMET) PER ND 1015401. MATERIAL SHALL BE (ONE (1) CYCLE REQUIRED) SHALL BE ACCOMPLISHED BY MOVING THE 1026DIA TYP-CERTIFIED WITH EACH SHIPMENT. THE EXPOSED PORTION BODY OF THE UNIT, WHILE IN THE SAME PLANE, THROUGH 90° IN ONE OF THE LEADS SHALL BE FREE OF SOLDER. DIRECTION, THEN BACK 180° IN THE OPPOSITE DIRECTION AND BACK -170\_\_\_ 90° TO THE ORIGINAL POSITION. (3) TORQUE: .260 MAX-(a) STARTING: 0.1 IN OZ MINIMUM 4. SPECIAL CONDITIONING: EACH LOT SHALL BE TEMPERATURE CYCLED BY THE VENDOR AND TEST DATA SUPPLIED WITH EACH SHIPMENT. (b) PREVAILING: 2.5 IN OZ MAXIMUM STEP 1 MEASURE AND RECORD THE INDUCTANCE AND Q AT THE MID RANGE (c) MAXIMUM TORQUE; UNIT SHALL BE CAPABLE OF WITHSTANDING 3.5 IN OZ MAX. WITH THE TUNING SLUG AT EITHER STOP. UTMOST CARE SHOULD BE USED NOT TO EXCEED THIS LIMIT. STEP 2 PERFORM SIX (6) CYCLES OF 125°C FOR 30 MIN, 25°C FOR 15 MIN, -55°C FOR 30 MIN. AFTER THE 6TH CYCLE PERFORM AN ADDITIONAL B. ELECTRICAL CHARACTERISTICS: 125°C FOR 30 MIN AND THEN WITHIN 2 MIN MEASURE INDUCTANCE (1) INDUCTANCE TUNING RANGE: FROM 8 MICROHENRIES TO 15 MICRO-AND Q. THE Q SHOULD BE WITHIN SPECIFIED LIMITS AND THE MENRRES AT 2.0 MEGACYCLES + 1%:USING A BOONTON 260A INDUCTANCE SHOULD BE WITHIN 10% OF THE ORIGINAL VALUE. Q MESER (OR EQUIVALENT) WITH A 420 PF OR 790 RF ± 5% PERFORM THE SEVENTH -55°C CYCLE AND WITHIN 1/2 HOUR THE ARGO ELECTRONICS DUR-NIBA CAPACITOR (OR EQUIVARENT) IN INDUCTANCE SHOULD BE WITHIN 5% AND THE Q SHOULD BE WITHIN PARALLEL WATH THE COSL. 420 RF AT 8 UH AND 790 RF AT 15 UH. THE SPECIFIED LIMIT. DETAIL A (2) Q-FACTOR: 50 MIN AT 8 MICROHENRIES AND 80 MIN AT 15 MICROHENRIES USING THE SAME EQUIPMENT SPECIFIED IN CAUTION SEE NOTE 2A(3)(c) PARAGRAPH 2.B.(1). (3) DC RESISTANCE: 1.9 OHMS MAX. (4) RESONANT FREQUENCY: 15 MEGACYCLES MINIMUM. NOMENCLATURE OR DESCRIPTION **MATERIAL** PART OR (5) INDUCTANCE - TEMP COEF: ± 150 PPM/C FROM 0°C TO IDENTIFYING NO. OR NOTES +70°C. LIST OF MATERIALS (6) TEST VOLTAGE: 100 VRMS BETWEEN WINDING AND THE JUNING UNLESS OTHERWISE SPECIFIED MIT MANNED SPACECRAFT CENTER SLUG WHEN IN THE MAXIMUM INDUCTANCE POSITION. DIMENSIONS ARE IN INCHES INSTRUMENTATION LAB HOUSTON, TEXAS CAMBRIDGE. MASS. CAPACITOR VALUES ARE IN MI (7) DISTRIBUTED CAPACITANCE: RESISTOR VALUES ARE IN OHMS DRAWN POSSESSIOAPRES 7 PICOFARADS 1 1% AT 13 NICROHENRIES TOLERANCES ON FRACTIONS DECIMALS ANGLES CHECKED Com Carrain BADAGE 6.6 PICOFARADS : 1% AT 11 MIEROHENRIES COIL, VARIABLE 6.1 PICOFARADS 12 1% AT 9 MICRONENRIES APPROVED\_ DO NOT SCALE THIS DRAWING APPROVED Eldon C Hall 26 May 65 SPECIFICATION CONTROL DRAWING MATERIAL PROCURE ONLY FROM APPROVED SOURCES LISTED IN NO 1002034 FOR THIS DRAWING. DRAWING NO. SEE NOTE 1006324 NEXT ASSY USED ON APPROVED Minister **APPLICATION** DATE SCALE NONE