1006325 DR CHK DESCRIPTION INITIAL RELEASE CLASS A 18236 PER TORR REQUIREMENTS: (4) CONTROL WINDING (LEADS 6 AND 7): GENERAL: (a) VOLTAGE: 100 MVRMS MAXIMUM (STANDARD TEST A. INTERPRET DRAWING IN ACCORDANCE WITH THE STANDARDS PRESCRIB-CONDITIONS) ED BY MIL-D-70327. (b) DC RESISTANCE: 400 OHMS MAXIMUM. B. UNITS SHALL CONFORM TO THE REQUIREMENTS OF MIL-T-27, GRADE (5) DIELECTRIC WITHSTANDING VOLTAGE: 1275 VRMS ON SECOND-5, CLASS S, EXCEPT AS, AND IN ADDITION TO THE REQUIREMENTS, ARY WINDING (4-5), 500 VRMS ON ALL OTHERS PER MIL-T-27 SPECIFIED HEREIN. CORE LOSS: 0.7 WATTS MAXIMUM (STANDARD TEST CONDITIONS) C. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS INSULATION RESISTANCE: 10,000 MEGOHMS MINIMUM AT CONTAINED IN ND 1015404, CLASS 2. 500 VDC. D. UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION REQUIRE-C. VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE MENTS OF ND 1002047. ACCOMPANIED BY THE FOLLOWING DOCUMENTATION: PART MARKING: UNITS SHALL BE PERMANENTLY AND LEGIBLY MARKED, (1) CERTIFIED TEST DATA FOR BURN-IN REQUIREMENT (NOTE 4). IN ACCORDANCE WITH ND 1002019, WITH THE MANUFACTURER'S NAME (2) CERTIFICATE OF COMPLIANCE WITH ND 1015404, CLASS 2. AND/OR SYMBOL, LOT CODE, SERIAL NUMBER, TERMINAL IDENTIFICA-(3) CERTIFICATE OF COMPLIANCE WITH LEAD MATERIAL TION, AND NASA PART NUMBER (DRAWING NUMBER AND REVISION REQUIREMENT. LETTER). F. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH ND 1002215, CLASS I, CODE 1. 3. DESIGN: (1) MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE A. OPERATING LIFE: UNITS SHALL BE CAPABLE OF CONTINUOUS MARKING OF UNIT AND INTERMEDIATE PACKAGES AND METHODS UNINTERRUPTED OPERATION AS SPECIFIED HEREIN FOR 2000 OF MARKING AS SPECIFIED IN ND 1002215. B. CONSTRUCTION: ACCEPTANCE AND INSPECTION (100% UNLESS OTHERWISE SPECIFIED). (1) CASE: UNIT SHALL BE ENCAPSULATED WITH A MINIMUM POTTING COVERAGE OF 0.031 INCH OVER CORE AND WINDINGS. A. MECHANICAL PROPERTIES: (2) LEAD MATERIAL: WELDABLE, UNCOATED, ANNEALED NICKEL (1) DIMENSIONS: "AS DELINEATED HEREIM. PER ND 1015400. (2) MARKING: AS SPECIFIED FOR PART MARKING. 4. SPECIAL CONDITIONING: ALL UNITS SHALL BE BURNED IN BY (3) LEAD STRENGTH: EACH LEAD SHALL BE CAPABLE OF MEETING SUPPLIER (SEE TEST CIRCUIT - FIG. 1) AND CERTIFIED TEST B. ELECTRICAL CHARACTERISTICS: THE FOLLOWING TESTS - HOWEVER THE SAME LEAD WILL NOT DATA SUPPLIED WITH EACH SHIPMENT. (1) STANDARD TEST CONDITIONS: BE TESTED FOR BOTH. NO MECHANICAL DAMAGE TO ENCAPSULANT A. OPERATING CONDITIONS: OPERATE THE UNIT AT 85°C AMBIENT OR LACK OF ELECTRICAL PERFORMANCE SHALL BE EVIDENCED AFTER TESTING.
LEAD PULL: 4 POUND MINIMUM AXIAL PULL APPLIED WITH-INPUT VOLTAGE (ACROSS LEADS 1 & 3): 35 VRMS ± FOR 50 HOURS IN THE BURN-IN TEST CIRCUIT (FIG. 1). 2%, 800 ± 8 CPS SINE WAVE WITH 1.0% MAXIMUM HARMONIC DISTORTION. B. MEASUREMENTS: INDUCTANCE AND DC RESISTANCE SHALL BE OUT SHOCK. MEASURED (AND RECORDED) BEFORE AND AFTER BURN-IN AT NO LOAD ACROSS LEADS 4 & 5 AND NO CONTROL CURRENT LEAD FATIGUE (BEND): DISCARD TESTED UNITS: HOLD UNIT (25°C) ROOM TEMPERATURE. THRU LEADS 6 & 7. IN SUCH A MANNER THAT A 2 POUND WEIGHT CAN BE SUSPENDED FROM THE LEAD UNDER TEST. THE BEND CYCLE (2) PRIMARY (LEADS 1 AND 3, CENTERTAPPED AT 2): C. REJECTION: ANY UNIT THAT CHANGES MORE THAN 5% BETWEEN (ONE CYCLE REQUIRED) SHALL BE ACCOMPLISHED BY MOVING INITIAL AND FINAL MEASUREMENT SHALL NOT BE SHIPPED. (a) PARALLEL INDUCTANCE (STANDARD TEST CONDITION): 500 THE UNIT BODY, WHILE IN A PLANE, THROUGH A 90° ARC IN MILLIHENRIES MINIMUM. ONE DIRECTION, THEN BACK 180° IN THE OPPOSITE DIRECTION, (b) PARALLEL INDUCTANCE (STANDARD TEST COND. + 5 MADC AND THEN BACK 90° TO THE ORIGINAL POSITION. THRU LEADS 6 & 7): 100 MILLIHENRIES ± 20%. (4) INTERNAL WIRE: MAGNET WIRE SHALL BE 0.0025 DIA (NO. 42 (c) CENTERTAP BALANCE (STANDARD TEST CONDITION): AWG) MINIMUM. VOLTAGES MEASURED FROM CENTERTAP TO EITHER END SHALL BE SUCH THAT THE SMALLER SHALL BE NO LESS THAN 98% OF THE LARGER. (d) DC RESISTANCE (1-3): 2.4 OHMS MAXIMUM. FIND NOMENCLATURE OR MATERIAL OR NOTES PART OR IDENTIFYING NO. (3) SECONDARY (LEADS 4 AND 5): DESCRIPTION (a) VOLTAGE: 275 VRMS ± 5% (STANDARD TEST CONDITIONS) LIST OF MATERIALS (b) DC RESISTANCE: 200 OHMS MAXIMUM. MIT MANNED SPACECRAFT CENTER UNLESS OTHERWISE SPECIFIED INSTRUMENTATION LAB DIMENSIONS ARE IN INCHES HOUSTON, TEXAS CAMBRIDGE. MASS. CAPACITOR VALUES ARE IN #f RESISTOR VALUES ARE IN OHMS DRAWN J.P. Leonard 17 17 FEB65 SATURABLE REACTOR TOLERANCES ON PROCURE ONLY FROM APPROVED SOURCES LISTED IN NO 1002034 FOR THIS DRAWING. FRACTIONS DECIMALS ANGLES CHECKED WOLFOURTS WEFEBLS DO NOT SCALE THIS DRAWING SPECIFICATION CONTROL DRAWING APPROVED Edm CHall Gazilles MATERIAL APPROVED WAR BUS CODE HOENT NO. SIZE DRAWING NO. SEE NOTE 1006325 USED ON **NEXT ASSY** SHEET | OF 2 DATE SCALE NONE **APPLICATION** 

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