

(a) PULSE DURATION: SHALL BE 5 usec ±.05 usec MEASURED FROM . SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN NO 1015404, CLASS 2, (b) PEAK PULSE AMPLITUDE: 2.0 VOLTS MINIMUM. (E) UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION REQUIREMENTS OF NO 1002047 UNITS SHALL MEET THE APPLICABLE REQUIREMENTS OF MIL-T-21038, GRADE 7, CLASS R, LIFE EXPECTANCY X (c) DROOP: 40% MIN. AT 5.0 MICROSECONDS 60% MAX. WITH THE EXCEPTIONS AND ADDITIONS SPECIFIED HEREIN. QUALIFICATION APPROVAL NOT REQ'D. (4) PULSE RISE TIME: 0.1 MICROSECOND MAXIMUM. E. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE WITH NO1002215 CLASS 1 CODE 1 (e) PULSE DECAY TIME: 0.1 MICROSECOND MAXIMUM. (1) MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE METHODS OF MARKING AS SPECIFIED IN NO 1002215 (f) OVER SHOOT N/A (9) DIELECTRIC WITHSTANDING VOLTAGE AT ATMOSPHERE PRESSURE (AT 28 TO 32 INCHES OF MERCURY): IN ACCORDANCE WITH PARAGRAPH 4.8.4.1 OF MIL-T-21038B. TEST BETWEEN PIN 1 AND PIN 3. DESIGN REQUIREMENTS: INSPECTION AND ACCEPTANCE: (100% UNLESS OTHERWISE SPECIFIED) A. MECHANICAL REQUIREMENTS: A. POWER RATING: 0.3 WATT AT 25°C DERATED LINEARLY TO .9E, / * DROOP (1) DIMENSIONS AND PART MARKING: AS DELINEATED HEREIN. .05 WATT AT 105°C. (2) LEADS SHALL BE UNCOATED ANNEALED NICKEL IN ACCORDANCE WITH ND1015400. A CERTIFICATE OF COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH SHIPMENT. B. DIELECTRIC WITHSTANDING VOLTAGE AT REDUCE BAROMETRIC PRESSURE: (3) COLOR SHALL BE RED IN ACCORDANCE WITH PARAGRAPH 4.8.4.2 OF MIL-T-21038B. (4) MARKING: UNITS SHALL BE MARKED IN ACCORDANCE WITH ND 1002019 TEST CONDITION E IN METHOD 105 OF MIL-STD-202 SHALL WITH THE MANUFACTURER'S NAME OR SYMBOL, PART NUMBER, DASH NO., APPLY. LEAD IDENTIFICATION, NASA DRAWING NUMBER AND REVISION LETTER. C. UNITS SHALL BE ENCAPSULATED. GOTHIC DEMIBOLD STYLE IS PERMISSIBLE
ELECTRICAL REQUIREMENTS: APPLICABLE PARAMETERS SHALL BE MEASURED D. WTRE SIZE: AWG 41 OR LARGER. DURATION USING A BOONTON 260A Q-METER OR EQUIVALENT PULSE E. OPERATING TEMPERATURE RANGE: 20°C TO 105°C. (1) PRIMARY INDUCTANCE (Lp): 1.7 MH ± 20%, MEASURED AT TERMINALS, 3-4 WITH TERMINALS 1-2 OPEN. INPUT CAPACITANCE WILL BE ACCOUNTED FOR 4. SPECIAL CONDITIONING (BY MANUFACTURER): 100% IN MEASUREMENT. EACH UNIT SHALL BE TEMP. CYCLED BY VENDOR PRIOR TO INSPECTION AND (2) LEAKAGE INDUCTANCE (LL) 2.3 UH MAXIMUM, MEASURED AT TERMINALS 3-4 ACCEPTANCE. THE TEST SHALL BE FIVE (5) CYCLES, ONE (1) CYCLE CONSISTING OF THE FOLLOWING: WITH TERMINALS 1-2 SHORT CIRCUITED 125°C FOR 30 MIN, 25°C FOR MAX. OF 10 MIN., MINUS 55°C FOR 30 MIN., AND (3) COUPLING CAPACITANCE (CC): 20. UUF MAXIMUM, MEASURED BY SHORTING 25°C FOR MAX. OF 10 MIN. DURING THE 5TH CYCLE THE UNIT SHALL BE MONITORED FOR CONTINUITY. TERMINALS 1-2 AND TERMINALS 3-4 AND MEASURING THE CAPACITANCE BETWEEN THEM. (4) INPUT CAPACITANCE (C1): 8.0 UUF MAXIMUM MEASURED AT TERMINALS 3-4 WITH TERMINALS 1-2 OPEN. (5) WORKING VOLTAGE: 50 VOLTS MINIMUM AT 105°C. (6) DC RESISTANCE: (a) TERMINALS 1-2: 1.4 OHMS MAXIMUM. (b) TERMINALS 3-4: 2.7 OHMS MAXIMUM. (7) TURNS RATIO: 1 TO 2. ±3% (8) WAVEFORM: FIGURE 1 WILL REPLACE THE TEST CIRCUIT, FIGURE 4 OF MIL-T-21038B. PART OR NOMENCLATURE OR FIND THE INPUT PULSE TRAIN SHALL HAVE A PULSE REPETITION RATE OF 100K CPS: ± 10% IDENTIFYING NO. DESCRIPTION AND THE PULSE WIDTH SHALL BE 5 MICROSECONDS + 02 USEC PULSE DEFINITION AND LIST OF MATERIALS MEASUREMENTS SHALL BE IN ACCORDANCE WITH PARAGRAPHS 3.12 AND MIT UNLESS OTHERWISE SPECIFIED MANNED SPACECRAFT CENTER 4.8.8 RESPECTIVELY OF MIL-T-21038B. THE TRANSFORMER OUTPUT INSTRUMENTATION LAB DIMENSIONS ARE IN INCHES SHALL MEET THE FOLLOWING SPECIFICATIONS MEASURED AT STANDARD HOUSTON, TEXAS TOLERANCES ON CONDITIONS EXCEPT AS OTHERWISE SPECIFIED: THIS TEST SHALL BE DECIMALS FRACTIONS ANGLES DRAWN LEWILL DATE / SPT 64 TRANSFORMER, PULSE PERFORMED ON A 5% SAMPLE OF EACH SHIPMENT WITH NO FAILURES CHECKED a. Marts 9-16-64 ALLOWED. DO NOT SCALE THIS DRAWING APPROVAL Find day 1-18-61 MATERIAL APPROVAL Ellacted 9/21/64 PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND1002034 FOR THIS DRAWING SPECIFICATION CONTROL DRAWING HEAT TREATMENT NASA APPROVAL (1) 1 Folia CODE IDENT NO. SIZE NASA DRAWING NO. 1006293 **NEXT ASSY** USED ON FINAL FINISH MIT APPROVAL LANDY SCALE NONE WT **APPLICATION** SHEET 2 OF 2