

00085 REVISIONS 6949001 DATE APPROVAL DESCRIPTION MENT THEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER; AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHE WISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO. THIS SHEET ADDED AND UPGRADED TO 128/ CLASS A RELEASE PER TDRR 02823 REVISED PER TORR 10117 REQUIREMENTS (CONTINUED): 4/6/64 DESIGN: THE MANUFACTURER SHALL RECORD THE CHARACTERISTICS LISTED IN TABLE I PRIOR TO AND FOLLOWING HIGH TEMPERATURE STORAGE: MECHANICAL REQUIREMENTS: (1) LEAD MATERIAL SHALL BE IRON-NICKEL-COBALT ALLOY (KOVAR) IN ACCORDANCE WITH NASA DOCUMENT PS 1015402 EXCEPT LEAD A total of the Comment of the comment of the comment DIAMETER SHALL BE AS FOLLOWS: THE LEAD DIAMETER IN THE ZONE BETWEEN .050 AND .250 FROM THE BASE SEAT SHALL BE .016 PLUS .003 MINUS .000, IN THE ZONE BETWEEN .250 AND 1.5 FROM Association (R): reus of these to receive THE BASE SEAT SHALL BE .021 MAXIMUM, AND OF THE REMAINDER (1) Or Ferry A. C. OFF LATTERAL PLUS MARINES E PERILENT. OF THE LEAD SHALL BE UNCONTROLLED. A CERTIFICATE OF COM-PLIANCE WITH THE LEAD MATERIAL REQUIREMENT SHALL ACCOMPANY D. UNITS WHICH FAIL TO MEET ALL INITIAL REQUIREMENTS OR WHICH EACH SHIPMENT. EXCEED THE SPECIFIED LIMITS FOR PARAMETRIC CHANGES FOLLOWING HIGH TEMPERATURE STORAGE SHALL NOT BE SHIPPED. (2) MARKING: (a) UNITS SHALL BE MARKED IN ACCORDANCE WITH ND1002019 0 WITH THE MANUFACTURER'S IDENTIFICATION, DATE CODE, SERIAL NUMBER AND THE NUMBER 769. PLUS THE REVISION LETTER INTERIOR AND EXTERIOR SHIPPING CONTAINERS SHALL BE MARKED IN ACCORDANCE WITH MIL-STD-129 WITH THE MANU-FACTURER'S NAME, LOT OR SERIAL NUMBER, DATE OF MANU-FACTURE OR CODING AND THE NASA DRAWING NUMBER AND REVISION TABLE I LETTER. A TAG MARKED WITH THE FOREGOING INFORMATION ELECTRICAL CHARACTERISTICS AS SHALL BE INCLUDED IN EACH CONTAINER. SPECIFIED IN ACCEPTANCE TEST PROCEDURE ND 1002017 (3) ENCLOSURE: METAL CASE WITH GLASS HEADER, HERMETICALLY SEALED (REFERENCE JEDEC TO-5 CASE). CHANGE LIMIT PARAMETER (4) SEMIZ-MOUCTOR MATERIAL: SILICON, NPN, DIFFUSED OXIDE PASS- $G_1 = V_{03}$ 4.8.1.1 IVATED SURFACE. 4.8.1.2 G5 = V09 ± 10% (5) INTERCONNECTIONS: THE DIFFUSED TRANSISTORS AND RESISTORS 4.8.1.3 $VR = V_{07} - V_{01}$ SHALL BE INTERCONNECTED AS SHOWN IN FIGURE 1. LEAKAGE: Q1 + Q2 | ± 30% OR + 75 NANO AMPS 4.7.3.1 THE TRANSISTORS SHALL BE SEPARAT_D FROM EACH OTHER AND FROM RESISTORS BY DIFFUSED ISOLATION REGIONS. TABLE I: ALLOWABLE PARAMETER CHANGE LIMITS B. ELECTRICAL CHARACTERISTICS: (1) THE ELECTRICAL CHARACTERISTICS SHALL BE AS SPECIFIED IN SENSE AMPLIFIER ACCEPTANCE TEST PROCEDURE ND 1002017. (2) THE EQUIVALENT CIRCUIT IS SHOWN IN FIG. 1. THE RESISTOR VALUES SHALL BE ±30%. RESISTOR R3 AND R4 SHALL BE GREATER THAN 20 OHMS. ABSOLUTE MAXIMUM RATINGS: (1) POWER DISSIPATION: 75 MILLIWATTS MAXIMUM WHILE OPERATING IN THE TEST CIRCUIT OF CARE SEATED CO. TO SEE NO 1002017. (2) STORAGE TEMPERATURE: MINUS 65 DEGREES CENTIGRADE TO PLUS 200 DEGREES CENTIGRADE. (3) OPERATING TEMPERATURE: MINUS 20 DEGREES CENTIGRADE TO PLUS 125 DEGREES CENTIGRADE. (4) THERMAL IMPEDANCE, JUNCTION TO CASE: .. 087 DEGREE CENTIGRADE (H) THIS SHEET ADDED PER MILLIWATT. (5) VOLTAGES: +20 VOLTS BETWEEN PIN 10 AND PIN 3. SPECIAL CONDITIONING: NOMENCLATURE OF PART OR IDENTIFYING NO. DESCRIPTION A. HIGH TEMPERATURE STORAGE: ALL UNITS SHALL BE STORED FOR 250 HOURS AT 150 DEGREES CENTIGRADE MIN 50 100 LIST OF MATERIALS UNLESS OTHERWISE SPECIFIED MANNED SPACECRAFT CENTER ALL UNITS SHALL BE SUBJECTED TO, AND MEET THE REQUIREMENTS OF INSTRUMENTATION LAB DIMENSIONS ARE IN INCHES CONSTANT ACCELERATION TESTS (20,000G) PER MIL-S-19500 METHOD HOUSTON, TEXAS TOLERANCES ON ANGLES DRAWN FRACTIONS DECIMALS SEMICONDUCTOR DEVICE, DO NOT SCALE THIS DRAWING INTEGRATED SENSE AMPLIFIER APPROVAL EL Quecal 27 Amy 63 MATERIAL APPROVAL SEA CHAR 27 aug 63 SPECIFICATION CONTROL DRAWING HEAT TREATMENT NASA DRAWING NO. NASA APPROVAL LOCEB MANAGE 1006769 **NEXT ASSY** USED ON FINAL FINISH MIT APPROVAL & MAJAL FONE SCALE NONE WT **APPLICATION** SHEET 2 OF 2