REVISIONS DESCRIPTION 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 OTHERWISE 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. DATE REVISED PER TORR NOTES: REPLACED BY REV F WITH CHANGES REQUIREMENTS: PER TORR 02006 ENCAPSULATION: GLASS. UNITS SHALL BE HERMETICALLY SEALED. LEAD MATERIAL SHALL BE IRON-NICKEL ALLOY, COPPER CLAD, GOLD PLATED IN ACCORDANCE WITH NDPS 1015401. A CERTIFICATE OF COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH SHIPMENT. SHALL WITHSTAND A THERMAL SHOCK OF 300°C FROM 0°C WITHIN 30 SECONDS AND BE RETURNED TO ROOM AMBIENT WITHOUT AFFECTING OPERATING CHARACTERISTICS AS SPECIFIED HEREIN, IN ADDITION TO THE REQUIREMENTS OF ND 1002000. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS OF ND1015404 SECTION II. UNITS SHALL BE 100 PERCENT INSPECTED FOR COMPLIANCE WITH THE REQUIREMENTS IN TABLE I UNLESS OTHERWISE SPECIFIED. TRANSIENT RESPONSE: USING A TECHTRONIX TYPE S PLUG-IN UNIT AND $I_F = 5$ MILLIAMPERES AND $I_R = 100$ MICROAMPERES, THE MEASURED TIME FCR INFORMATION ONLY MUST BE LESS THAN .5 MICROSECOND. THE SLOPE OF THAT PORTION OF THE DISCHARGE CURVE CORRESPONDING TO LINEAR CAPACITANCE SHALL BE GREATER THAN .5 VOLTS AND .2 MICROSECOND. CLASS B RELEASE TOR No. 00165 DATE LEAD TESTS: EACH LEAD SHALL BE CAPABLE OF WITHSTANDING THE 12-12-62 FOLLOWING TESTS: (1) LEAD BEND TEST: WITH THE COMPONENT BODY HELD IN A VERTICAL POSITION AND A ONE POUND WEIGHT SUSPENDED IN AN AXIAL DIRECTION FROM THE LEAD UNDER TEST, 2 CYCLES OF BENDS SHALL - DENOTES CATHODE END BE ACCOMPLISHED. ONE CYCLE OF BENDS SHALL CONSIST OF MOVING THE BODY OF THE UNIT IN THE SAME PLANE THROUGH 90 DEGREES IN ONE DIRECTION THEN BACK 180 DEGREES IN THE OPPOSITE DIRECTION AND BACK 90 DEGREES TO THE ORIGINAL .021 .019 DIA POSITION. NO MECHANICAL DAMAGE OR LACK OF PERFORMANCE SHALL BE EVIDENCED AFTER THE TEST. (2) LEAD PULL TEST: EACH LEAD SHALL WITHSTAND AN AXIAL PULL OF 4 POUNDS MINIMUM. NO MECHANICAL DAMAGE OR LACK OF PERFORMANCE SHALL BE EVIDENCED AFTER THE TEST. EACH DIODE SHALL BE MICROSCOPICALLY INSPECTED, BEFORE PAINTING, UNDER 10X MAGNIFICATION, FOR FOREIGN PARTICLES, TIPPED DICE, INCOMPLETE SEALING, AND REDUCTION OF LEAD DIAMETER AT POINT OF FUSING. E REPLACED BY REVEWITH CHANGE PREPARATION FOR DELIVERY: IN ACCORDANCE WITH MIL-S-19491 LEVEL C PRESERVATION AND PACKAGING AND LEVEL C PACKING. MARKING OF (C) REPLACES REVB WITH CHANGE UNIT PACKAGES AND EXTERIOR SHIPPING CONTAINERS SHALL INCLUDE THE NASA DRAWING NUMBER AND REVISION LETTER. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. REV--- A REV---SHEET 1 SHEET 2 NOMENCLATURE OR FIND REQD IDENTIFYING NO. DESCRIPTION REVISION STATUS OF SHEETS LIST OF MATERIALS UNLESS OTHERWISE SPECIFIED MANNED SPACECRAFT CENTER INSTRUMENTATION LAB DIMENSIONS ARE IN INCHES HOUSTON, TEXAS TOLERANCES ON ANGLES DRAWN Ray Wheeler DATE 2/91-62 DECIMALS CHECKED # 71 Device, DIODE DO NOT SCALE THIS DRAWING APPROVAL & C Zall 11 Dec 62 SPECIFICATION CONTROL DRAWING PROCURE ONLY FROM APPROVED SOURCES LISTED ON SEE NOTE NDIO02034 FOR THIS DRAWING HEAT TREATMENT NASA APPROVAL WI Pline CODE IDENT NO. SIZE NASA DRAWING NO. NONE 1006751 12-12-62 **NEXT ASSY** USED ON FINAL FINISH NONE **APPLICATION** SHEET | OF 2 INCHES

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