03038 DESCRIPTION INITIAL RELEASE CLASS A PER TDRR 03056 W/463 W/ 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 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. REVISED PER TDRR 06243 REVISED PER TDRR 12767 TABLE I REVISED PER TDRR 19731 DIMENSIONS TIME DISSIPATION ZERO-POWER RESISTANCE IN OHMS CONSTANT CONSTANT SECONDS 1,000±1% 3,274±3% 3.225 **B.** 95 5,000±1% | 17,700±3% | 1,630±3% TABLE II REQUIREMENT PARAGRAPHS EXAMINATION OR TEST PARA. 3.2 THROUGH 3.9.2 OF ND - 1002057 GENERAL QUALIFICATION REQUIREMENTS GROUP I (ALL SAMPLES) PARA 4.2.1 OF ND -1002057 VISUAL & MECHANICAL PARA 4.5.2 OF MIL-T-23648 EXCEPT MEASURE AT 25°C, +50°C & 0°C ZERO-POWER RESISTANCE PARA 4.5.4 OF MIL-T-23648 DISSIPATION CONSTANT PARA 4.5.5 OF MIL-T-23648 THERMAL TIME CONSTANT PARA 3.3.7 OF MIL-T-23648 EXCEPT MEASURE POWER THAT PRODUCES MAXIMUM POWER RATING TEMPERATURE RISE OF +80°C GROUP II (1/3 OF SAMPLES) CHARACTERISTICS PARA 4.5.8 OF MIL-T-23648 (EXCEPT USE TEST CONDITION A OFML-STD-202) TEMPERATURE CYCLING PARA 4.5.6 OF MIL-T-23648 EXCEPT TEMPERATURE IN PARA 4.5.6.2 THERMAL STABILITY WILL BE +105 ± 2°C PARA 4.5.7 OF MIL-T-23648 EXCEPT LOW TEMPERATURE WILL BE LOW TEMPERATURE STORAGE -55 ± 3°C PARA 4.5.10 OF MIL-T-23648 TERMINAL STRENGTH GROUP III (1/3 OF SAMPLES) PARA 4.2.11 OF ND 1002057 (SEE NOTE 1) VIBRATION PARA 4.2.12 OF ND 1002057 (SEE NOTE 1) MOISTURE RESISTANCE PARA 4.5.13 OF MIL-T-23648 (SEE NOTE 2) GROUP IV (1/3 OF SAMPLES) PARA 4.5.15 OF MIL-T-23648 EXCEPT INITIAL RESISTANCE MAY BE LOAD LIFE MEASURED PRIOR TO START OF LIFE. MAX OPERATING TEMPERATURE IS +105°C PARA 4.2.16 OF ND 1002057 LEAD COMPOSITION NOTE 1 THE AMOUNT OF POWER TO BE APPLIED WILL BE THAT NECESSARY TO RAISE THE THERMISTOR TEMPERATURE TO APPROX. +65°C UNDER NORMAL FREE AIR CONDITIONS. ZERO-POWER RESISTANCE WILL BE MEASURED BEFORE AND AFTER TEST PER PARA. 4.5.2. OF MIL-T-23648. NOTE 2 FIND NOMENCLATURE OR PART OR DESCRIPTION IDENTIFYING NO. INDICATED STEPS (a), (d), AND (f) REPLACED BY (1), (4), AND (7) RESPECTIVELY. REQD LIST OF MATERIALS UNLESS OTHERWISE SPECIFIED MANNED SPACECRAFT CENTER INSTRUMENTATION LAB DIMENSIONS ARE IN INCHES HOUSTON, TEXAS TOLERANCES ON DECIMALS FRACTIONS RESISTOR, TEMPERATURE SENSITIVE, WAFER DO NOT SCALE THIS DRAWING MATERIAL APPROVAL Eldan C Wall 724463 SPECIFICATION CONTROL DRAWING NASA APPROVAL ASMILLE 9/14/15 CODE IDENT NO. NASA DRAWING NO. HEAT TREATMENT 1006712 USED ON **NEXT ASSY** FINAL FINISH SHEET 2 OF 2 **APPLICATION**