

REVISIONS DESCRIPTION INITIAL RELEASE CLASS A REVISED PER TDRR 25985 TERMINAL INSPECTION AND ACCEPTANCE: (CONTINUED) DASH | DIMENSION "A" | TERMINATION LEAD B. ELECTRICAL REQUIREMENTS: STRENGTH NUMBER (1) DIELECTRIC WITHSTANDING VOLTAGE: 1000 VOLTS RMS. | SOLDER LUGS .390 MAX 70,000 FEET: 300 VOLTS RMS. SOLDER LUGS (2) INSULATION RESISTANCE: (100%) SHALL BE A MINIMUM WIRE LEADS 12 MIN OF 100 MEGOHMS WHEN MEASURED WITH 100 VDC APPLIED WIRE LEADS FOR A MAXIMUM OF 1 MINUTE BETWEEN TERMINALS AND GROUND OR CASE AND MUTUALLY INSULATED PARTS. (3) CONTACT RESISTANCE: (100%) SHALL BE MEASURED WITH 1 MILLIAMPERE FROM A 6 VOLT DC OPEN CIRCUIT VOLTAGE. THE CONTACTS SHALL NOT SWITCH THE MEASURING LOAD. THE PART NUMBER IS THE DRAWING NUMBER LIMITS SHALL BE 1 OHM MAX. INITIALLY, DURING AND PLUS THE APPLICABLE DASH NUMBER. AFTER THE SPECIFIED CYCLES OF LIFE. 3. DESIGN: A. TEMPERATURE RANGE: MINUS 300°F TO PLUS 250°F. B. CONTACT RATING (28 VOLTS DC/125 VOLTS, 400 CYCLES): (1) RESISTIVE: 5 AMPERES (2) INDUCTIVE: 3 AMPERES C. STRENGTH OF TERMINALS: PER ND 1002055, EXCEPT AS -.031 SPHERICAL OTHERWISE NOTED IN TABLE BELOW. RADIUS D. STRENGTH OF ACTUATOR AND STOP: 10 POUNDS. E. MINIMUM OPERATING CYCLES: 25,000 .030 MAX .090 MAX F. SWITCHES SHALL BE HERMET! CALLY SEALET AND FILLED WITH PRETRAVEL -. 281 AN INERT GAS. NOTE 1 G. TERMINALS-SOLDER LUGS ONLY, SHALL BE TINNED FOR SOLDERING. H. DIELECTRIC STRENGTH: PER ND 1002055, EXCEPT TEST VOLTAGE AT A SIMULATED ALTITUDE OF 70,000 FEET SHALL BE 300 VOLTS RMS AT 60 CPS. J. SHOCK: PER ND 1002055, EXCEPT HALF SINE WAVE SHOCK INPUT .425 .33 OPERATING ___ SHALL BE USED. MAX POSITION K. LIFE: PER ND 1002055, EXCEPT DIELECTRIC STRENGTH SHALL BE PERFORMED AT A TEST VOLTAGE OF 500 VOLTS RMS AT 60 CPS .090__ AND CONTACT RESISTANCE LIMITS SHALL BE 500 MILLIOHMS SEE NOTE 1 MAXIMUM WHEN CHECKED UNDER ACTUAL LIFE TEST LOAD CONDITIONS. 4. SPECIAL CONDITONING: NO. 22 WIRE LEAD A. EXPOSED SURFACE OF TERMINAL IMBEDMENT MATERIAL FOR SOLDER LUG TERMINALS SHALL BE PER MIL-W-16878 ROUGHENED OR ABRADED BY SAND BLASTING OR OTHER SUITABLE MEANS FOR FUTURE PRIMING -. 160 REF (TYPE E) 3 REQD-AND WATER PROOFING. -METAL TERMINAL .217 .375 SEE -GUARD (CORROSION NOTE 1 RESISTANT) .320 DASH -3 → 600 REF -NOMENC'LATURE OR PART OR DESCRIPTION IDENTIFYING NO. LIST OF MATERIALS UNLESS OTHERWISE SPECIFIED MANNED SPACECRAFT CENTER INSTRUMENTATION LAB DIMENSIONS ARE IN INCHES HOUSTON, TEXAS TOLERANCES ON DECIMALS SWITCH, SENSITIVE DO NOT SCALE THIS DRAWING SPECIFICATION CONTROL DRAWING HEAT TREATMENT NASA DRAWING NO. NASA APPROVAL USED ON **NEXT ASSY** FINAL FINISH SHEET 2 OF 3 **APPLICATION**

