REVISIONS DESCRIPTION REPLACES REV & WITH CHANGES PER TORR 03/6F 9/12/6 SPECIAL CONDITIONING BY SUPPLIER: (100%) REVISED PER TDRR A. ALL UNITS SHALL BE X-RAYED PER MIL-STD-202, METHOD 209, PERPENDICULAR TO THE MAJOR AXIS OF THE CAPACITOR REQUIREMENTS: REVISED PER TDRR 06011 ALL X-RAYS SHALL BE INSPECTED FOR LOOSE SOLDER GENERAL: PARTICLES, INADEQUATE ANODE ANCHORAGE, OR POOR ALIGNMENT. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. REVISED PER TDRR 16050 THESE CAPACITORS SHALL CONFORM TO THE REQUIREMENTS OF MIL-C-26655 /2B FOR STYLE CS-13, WITH THE EXCEPTIONS AND ADDITIONS SPECIFIED IN THIS DRAWING. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS IN ND 1015404. SHALL BE TESTED AT RATED VOLTAGE AT +85°C FOR MINIMUM OF 250 HOURS. ALL UNITS WHICH HAVE A ACCEPTANCE OF CERTIFIED TEST DATA FOR PURCHASED PRODUCTION LOTS. BLOWN FUSE OR WHICH ARE OUTSIDE OF ALLOWABLE CAPACITORS SHALL BE PACKAGED IN ACCORDANCE WITH SUPPLIERS NORMAL COMMERCIAL TOLERANCE FOR CAPACITANCE. DISSIPATION FACTOR. OF LEAKAGE CURRENT WHEN TESTED AT 25°C ON COMPLETION PRACTICE PER LEVEL C AS DEFINED IN MIL-C-26655. INSPECTION AND ACCEPTANCE: MECHANICAL DIMENSIONS AND TOLERANCES PER DRAWING. LEAD MATERIAL SHALL BE NICKEL IN ACCORDANCE WITH ND PS 1015400. EQUIVALENT SERIES RESISTANCE AT 25°C: UNITS SPECIFIED IN TABLE III SHALL BE SCREENED EACH CAPACITOR SHALL BE PERMANENTLY AND LEGIBLY MARKED WITH THE MANUFACTURERS FOR MAXIMUM ESR BY PLACING UNITS IN TEST CIRCUIT NAME AND/OR SYMBOL, TYPE NUMBER, CAPACITANCE VALUE AND TOLERANCE, VOLTAGE AND CALCULATING ESR BY THE FORMULA: RATING AND POLARITY. EACH UNIT PACKAGE AND SHIPPING CONTAINER SHALL ALSO INCLUDE THE NASA DRAWING NUMBER, DASH NUMBER AND REVISION LETTER. PER MIL-STD-129. EC1R1 ER12 + EC12 - EA2 D. ALL PARTS SHALL BE SERIALIZED. PARTS WHICH HAVE FAILED NEED NOT BE FORWARDED. ELECTRICAL REQUIREMENTS: @ 25°C (1) CAPACITANCE VALUE PER TABLE II AND IV E_{C} = AC COMPONENT ACROSS C₁ (RMS) (2) DISSIPATION FACTOR 6% MAXIMUM FOR VOLTAGE OF 15 VDC OR LESS. 4% MAX. FOR ALL $E_{R2} = AC COMPONENT ACROSS R_1 (RMS)$ OTHER VOLTAGE RATINGS. (3) LEAKAGE CURRENT: PER TABLE II AND IV EA = AC VOLTAGE APPLIED (RMS) F. UNITS SHALL BE SUPPLIED FROM A PRODUCT LINE WHICH IS CONTINUOUSLY MONITORED R₁ = VALUE FROM TABLE I FOR AND EXHIBITS A FAILURE RATE OF LESS THAN 0.15% PER THOUSAND HOURS AT A 60% CONFIDENCE LEVEL WHEN PLACED ON LIFE TEST UNDER THE FOLLOWING CONDITIONS: 5. VENDOR SUPPLIED DOCUMENTATION: A. CERTIFICATE OF COMPLIANCE WITH INSULATION-(1) TEMPERATURE: 85°C B. BEFORE-AND-AFTER BURN-IN READINGS FOR (2) VOLTAGE: FULL RATED VOLTAGE B MAX-(1) CAPACITANCE (3) SERIES RESISTANCE (EXTERNAL): 10 OHMS, 1/10 WATT, FUSIBLE (2) DISSIPATION FACTOR (3) LEAKAGE CURRENT (4) POWER SUPPLY: 25 AMPERES FOR 1 MINUTE CAPABILITY. FAILURE RATE DATA FROM A PRODUCT LINE WHOSE ONLY DIFFERENCES ARE: TEST DATA TO SUBSTANTIATE REQUIRED FAILURE RATE. CERTIFICATE OF COMPLIANCE SHOULD CONTAIN THE (a) THE TYPE OF INSULATION SLEEVING OR (b) LEAD MATERIAL WILL BE ACCEPTABLE FOR THIS REQUIREMENT. QUANTITY AND DATE OF SHIPMENT ANY REFERENCED SPECIFICATION REQUIRED TO BE DESIGN REQUIREMENTS: CERTIFIED BY THIS DRAWING OR PURCHASE ORDER A. UNITS SHALL BE CAPABLE OF MEETING THE REQUIREMENTS OF MIL-C-26655. FOR CONSTRUCTION AND ENVIRONMENT. (H) REPLACES REV G WITH CHANGES B. OPERATING TEMPERATURE RANGE: -55°C TO +85°C AT FULL RATED VOLTAGE: DERATED TO 2/3 RATED VOLTAGE AT +125°C. C. SURGE VOLTAGE: 130% OF RATED VOLTAGE. PART OR NOMENCLATURE OR D. STABILITY AT HIGH AND LOW TEMPERATURE: CAPACITANCE SHALL CHANGE FROM IDENTIFYING NO. DESCRIPTION 25°C VALUE BY NO MORE THAN -15% AT -55°C AND BY NO MORE THAN +15% AT +85°C. LIST OF MATERIALS E. LEAD BEND AND PULL TEST (DESTRUCTIVE): UNLESS OTHERWISE SPECIFIED (1) LEADS SHALL WITHSTAND A 4 POUND AXIAL PULL MINIMUM MANNED SPACECRAFT CENTER INSTRUMENTATION LAB DIMENSIONS ARE IN INCHES WITHOUT IMPAIRMENT OF PERFORMANCE. HOUSTON, TEXAS TOLERANCES ON (2) LEADS SHALL WITHSTAND THE BEND TEST AS SPECIFIED IN THE CHECKED BLOKER 16 16 16 CAPACITOR FIXED, ELECTROLYTIC, FRACTIONS DECIMALS MIL-C-26655 EXCEPT THE WEIGHT SHALL BE 2 POUNDS. DO NOT SCALE THIS DRAWING APPROVAL_ SOLID TANTALUM MATERIAL APPROVAL ELAM C Hall 17 Sept 63 SEE NOTES SPECIFICATION CONTROL DRAWING PROCURE ONLY FROM APPROVED SOURCES LISTED IN HEAT TREATMENT CODE IDENT NO. SIZE NASA DRAWING NO. NASA APPROVAL SOR COMMENT ND 1002034 FOR THIS DRAWING. 80230 1006755 **NEXT ASSY** USED ON FINAL FINISH MIT APPROVAL & Hast 9/17/67 SCALE NONE WT APPLICATION SHEET OF 3



