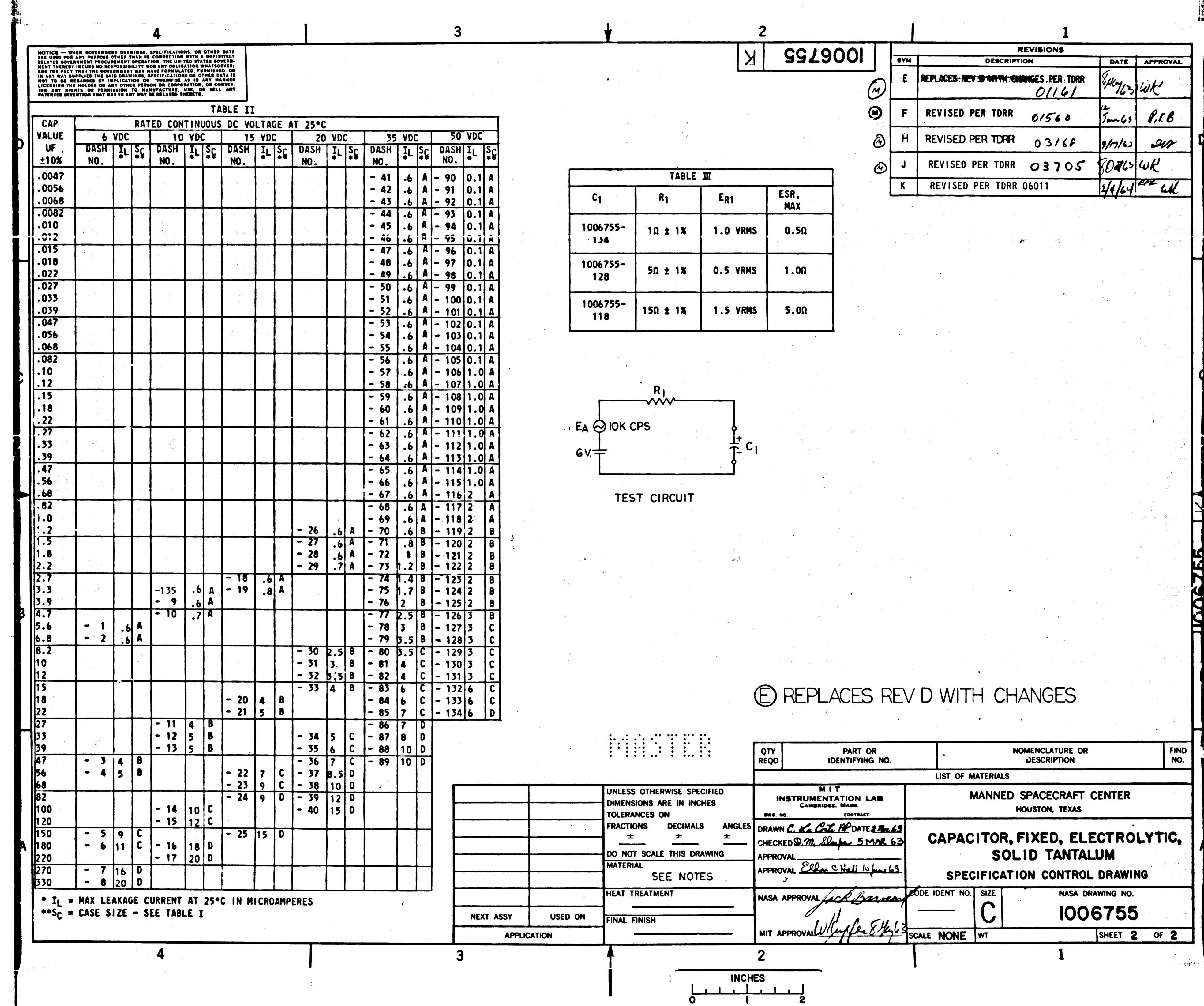
REVISIONS 2279001 DESCRIPTION DATE APPROVAL REPLACES REV & WITH CHANGES PER TDRR 03/68 9/11/6 4. SPECIAL CONDITIONING BY SUPPLIER: (100%) A. ALL UNITS SHALL BE X-RAYED PER MIL-STD-202, METHOD 8CARCS WK 03705 209, PERPENDICULAR TO THE MAJOR AXIS OF THE CAPACITOR. REQUIREMENTS: REVISED PER TDRR 06011 ALL X-RAYS SHALL BE INSPECTED FOR LOOSE SOLDER PARTICLES, INADEQUATE ANODE ANCHORAGE, OR POOR **GENERAL:** ALIGNMENT. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327. BURN-IN: EACH UNIT SHALL BE CONNECTED IN SERIES 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. WITH A 3 OHM RESISTOR AND A ONE AMP FUSE. UNITS SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS IN ND 1015404, SHALL BE TESTED AT RATED VOLTAGE AT +125°C FOR CLASS 2. PERIODIC INSPECTIONS MAY BE SATISFIED BY THE SUBMISSION AND 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 TOLERANCE FOR CAPACITANCE, DISSIPATION FACTOR, OR LEAKAGE CURRENT WHEN TESTED AT 25°C ON COMPLETION CAPACITORS SHALL BE PACKAGED IN ACCORDANCE WITH SUPPLIERS NORMAL COMMERCIAL PRACTICE PER LEVEL C AS DEFINED IN MIL-C-26655. OF BURN-IN SHALL BE DISCARDED. TEST READINGS FOR EACH CAPACITOR TAKEN BEFORE AND INSPECTION AND ACCEPTANCE: AFTER BURN-IN FOR CAPACITANCE, DISSIPATION FACTOR A. MECHANICAL DIMENSIONS AND TOLERANCES PER DRAWING, AND LEAKAGE CURRENT SHALL BE SUBMITTED WITH EACH LEAD MATERIAL SHALL BE NICKEL IN ACCORDANCE WITH ND PS 1015400. A CERTIFICATE OF COMPLIANCE SHALL ACCOMPANY EACH SHIPMENT. EQUIVALENT SERIES RESISTANCE AT 25°C: UNITS SPECIFIED IN TABLE III SHALL BE SCREENED C. 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. D. ALL PARTS SHALL BE SERIALIZED COPIES OF ALL TEST DATA AND X-RAY NEGATIVES SHALL BE FORWARDED WITH PARTS. PARTS WHICH HAVE FAILED NEED NOT BE FORWARDED. E. ELECTRICAL REQUIREMENTS: @ 25°C WHERE (1) CAPACITANCE VALUE PER TABLE $E_{C1} = AC COMPONENT ACROSS C_1 (RMS)$ -ANODE END (2) DISSIPATION FACTOR 4% MAXIMUM $E_{R1} = AC COMPONENT ACROSS R_1 (RMS)$ (3) LEAKAGE CURRENT PER TABLE EA = AC VOLTAGE APPLIED (RMS) 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: INSULATION-(1) TEMPERATURE: 85°C TABLE I B MAX-(2) VOLTAGE: FULL RATED VOLTAGE (3) SERIES RESISTANCE (EXTERNAL): 10 OHMS, 1/10 WATT, FUSIBLE DIMENSIONS NOMINAL LEAD SIZE (4) POWER SUPPLY: 25 AMPERES FOR 1 MINUTE CAPABILITY. NO. 24 AWG FAILURE RATE DATA FROM A PRODUCT LINE WHOSE ONLY DIFFERENCES ARE: (.020 DIA)"(1)" THE TYPE OF INSULATION SLEEVING OR (2) LEAD MATERIAL WILL BE ACCEPTABLE FOR THIS REQUIREMENT. A CERTIFICATE OF COMPLIANCE WITH THE FAILURE (.025 DIA) .884 .367 .922 RATE REQUIREMENTS DERIVED FROM THE MOST CURRENT TEST DATA OF THE PRODUCT LINE SHALL ACCOMPANY EACH SHIPMENT. DESIGN REQUIREMENTS: A. UNITS SHALL BE CAPABLE OF MEETING THE REQUIREMENTS OF MIL-C-26655. FOR CONSTRUCTION AND ENVIRONMENT. (H) REPLACES REV G WITH CHANGES 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. SHEET 2 NOMENCLATURE OR PART OR D. STABILITY AT HIGH AND LOW TEMPERATURE: CAPACITANCE SHALL CHANGE FROM REVISION STATUS OF SHEETS DESCRIPTION IDENTIFYING NO. 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 LEADS SHALL WITHSTAND THE BEND TEST AS SPECIFIED IN THE CHECKED BLANKS DATE/LSON, LIGHTS CAPACITOR FIXED, ELECTROLYTIC, FRACTIONS DECIMALS MIL-C-26655 EXCEPT THE WEIGHT SHALL BE 2 POUNDS. DO NOT SCALE THIS DRAWING 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 ACE CARAMA ND 1002034 FOR THIS DRAWING. 1006755 **NEXT ASSY** USED ON FINAL FINISH MIT APPROVAL & NONE WT **APPLICATION** SHEET OF 2 INCHES

O 2
PHOTOGRAPHIC SCALE ONLY



PHOTOGRAPHIC SCALE ONLY