2. INSPECTION AND ACCEPTANCE:

A. MECHANICAL REQUIREMENTS:

- SPECIFIED IN ND 1015404, CLASS 3
- UNITS SHALL BE IN ACCORDANCE WITH MIL-P-19491 LEVEL A.
- UNITS SHALL BE IN ACCORDANCE WITH MIL-S-13500 IN ADDITION TO THE REQUIREMENTS SPECIFIED HEREIN.

B. ELECTRICAL CHARACTERISTICS: PER TABLES II & III

- AMBIENT TEMPERATURE: 25°C ± 5°C
- COLLECTOR VOLTAGE Vce: 45 ± 5 VDC PER ELEMENT
- POWER DISSIPATION: 150 W ± 10% PER ELEMENT
- SATURATION VOLTAGE, Vce(sat)
- STATIC FORWARD CURRENT TRANSFER RATIO, Rho.

C. STORAGE AND OPERATING JUNCTION TEMPERATURE: -65°C TO +200°C

- THE MANUFACTURER SHALL DETERMINE AND RECORD THE FOLLOWING ELECTRICAL CHARACTERISTICS PRIOR TO AND FOLLOWING BURN-IN:
  1. EMMITER CUTOFF CURRENT, Ie0.
  2. COLLECTOR CUTOFF CURRENT, Ic0.
  3. COLLECTOR SATURATION VOLTAGE, Vce(sat).
  4. STATIC FORWARD CURRENT TRANSFER RATIO, Rho.

D. THE DATA SHALL BE PRESENTED IN A MANNER THAT PROVIDES POSITIVE IDENTIFICATION OF EACH INDIVIDUAL TRANSISTOR WITH THE INITIAL TEST READING, THE FINAL READING AND THE PERCENT CHANGE BETWEEN THE INITIAL AND FINAL READING.

- THE TEST DATA SUBMITTED SHALL ALSO INCLUDE THE MANUFACTURER'S NAME, TRADEMARK OR CODE; DATE CODE; LOT ABSOLUTE CHANGE MUST BE GREATER THAN 5 NanoAmperes (THE ABSOLUTE CHANGE MUST BE greater THAN 5 NanoAmperes) SHALL NOT BE ACCEPTABLE.

- UNITS FAILING TO MEET THE SPECIFIED REQUIREMENTS OR HAVING CHANGED MORE THAN 20% IN ANY WAY SHALL NOT BE ACCEPTABLE.

- SHOTGUN VOLTAGF (VCEO)

- STATIC FORWARD CURRENT TRANSFER RATIO, Rho.

- COLLECTOR SATURATION VOLTAGE Vce(sat)

- BASE VOLTAGE DIFFERENTIAL

- COLLECTOR CUTOFF CURRENT Ic0.

- POWER DISSIPATION PER ELEMENT:
  1) AT 25°C CASE TEMPERATURE: 1.5 WATTS
  2) AT 100°C CASE TEMPERATURE: 800 MILLIWATTS
  3) AT 25°C AMBIENT TEMPERATURE: 500 MILLIWATTS
  4) POWER DISSIPATION (DUAL) TOTAL:
    1) AT 25°C CASE TEMPERATURE: 3 WATTS
    2) AT 100°C CASE TEMPERATURE: 1.7 WATTS
    3) AT 25°C AMBIENT TEMPERATURE: 600 MILLIWATTS

- LIFE TEST CONDITIONS FOR ND 1002051 SAME AS BURN-IN CONDITIONS.

- UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.
- MILLIONTHS OF AN INCH TO THE RIGHT OF THE DECIMAL POINT ARE IN DECIMALS ANGLE UNLESS OTHERWSE SPECIFIED, NOT TO SCALE THIS DRAWING.

- INSTRUMENTATION LAB

- MANUFACTURE:
  - NPN, SILICON, DUALSECTION
  - SPECIFICATION CONTROL DRAWING

- MANNED SPACECRAFT CENTER

- HOUSTON, TEXAS

- REVISION STATUS OF SHEETS

- SHEET 1 OF 4

- PHOTOGRAPHIC SCALE ONLY