1. GENERAL REQUIREMENTS:
   A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-90737.
   B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS Contained in NO 1015404, CLASS 2.
   C. UNITS SHALL BE Capable of meeting THE QUALIFICATION REQUIREMENTS OF NO 1002057.
   D. MARKING: UNIT PACKAGES SHALL BE LEGIBLY MARKED PER MIL-STD-129, MANUFACTURER'S NAME AND/OR SYMBOL, LOT CODE, AND DATE OF MANUFACTURE.
   E. SPECIAL CONDITIONING (CONT'D): FOLLOWING BURN-IN, THE RESISTANCE OF EACH UNIT SHALL BE MEASURED AT (3) THREE TEMPERATURES: 0°0.1°C, 25°0.1°C AND 50°0.1°C. THE RESISTANCE MEASURED AT THESE TEMPERATURES SHALL be SUPPLIED FOR EACH UNIT.

2. ACCEPTANCE AND INSPECTION REQUIREMENTS (100%):
   A. MECHANICAL REQUIREMENTS:
      (1) LEAD MATERIAL: NICKEL (GRADE A) PER NO PS 103400.
      (2) PROTECTIVE VARNISH: MOISTURE AND FUNGUS PROOF VARNISH PER MIL-STD-119.
      (3) CERTIFICATE OF COMPLIANCE: COMPLIANCE WITH THE LEAD AND VARNISH MATERIAL REQUIREMENT SHALL BE CERTIFIED WITH EACH SHIPMENT.
   B. ELECTRICAL CHARACTERISTICS (AT 25° ± 0.1°C):
      (1) RESISTANCE VALUE: TABLE I VALUE.
      (2) RESISTANCE-TEMPERATURE CHARACTERISTICS: $R_T = R_{25} + B_T (T - T_{25})$.
      SEE TABLE II FOR $B_T$ AND TANDEM VALUES OF $T_{25}$.

3. DESIGN REQUIREMENTS:
   A. DISSIPATION CONSTANT: SEE TABLE I FOR THE AMOUNT OF POWER WHICH WILL RAISE THE THERMISTOR ONE DEGREE CENTIGRADE ABOVE AMBIENT.
   B. TIME CONSTANT: SEE TABLE I FOR THE TIME REQUIRED FOR THE THERMISTOR TEMPERATURE TO CHANGE 98% INTERNAL FOR A CERTAIN CHANGE IN AMBIENT TEMPERATURE. THE THERMISTOR WILL REACH 98% OF TEMPERATURE CHANGE IN APPROXIMATE 5 TIMES THE CONSTANT LISTED.

4. SPECIAL CONDITIONING:
   A. TEMPERATURE CYCLING: RESISTORS SHALL BE TESTED PER MIL-STD-202, METHOD 8501, CONDITION C EXCEPT TEMPERATURE EXTREMES OF -55°C AND +125°C. RESISTANCE ONE HOUR AFTER TESTING SHALL NOT VARY MORE THAN ±1% FROM THE INITIAL MEASUREMENT. THERE SHALL BE NO MECHANICAL DAMAGE.
   B. BURN-IN: RESISTORS SHALL BE BURNED IN NON-OPERATING AT 50°C FOR 100 HOURS. RESISTANCE ONE HOUR AFTER TESTING SHALL NOT VARY MORE THAN ±1% FROM THE INITIAL MEASUREMENT. THERE SHALL BE NO MECHANICAL DAMAGE.

PROCEDURE ONLY FROM APPROVED SOURCES LISTED IN NO 1002034 FOR THIS DRAWING.