1. GENERAL REQUIREMENTS:
   A. INTERNEDIATE DRAWING IN ACCORDANCE WITH THE STANDARDS PRESCRIBED BY MIL-D-70327.
   B. UNITS SHALL BE IN ACCORDANCE WITH MIL-R-65720 (TYPE 8790) AS SPECIFIED BELOW WITH EXCEPTIONS.
   C. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN MW 105400, CLASS 2.
   D. UNITS SHALL BE CAPABLE OF METING THE QUALIFICATION REQUIREMENTS OF ND 1002057.

2. ACCEPTANCE AND INSPECTION:
   A. MECHANICAL PROPERTIES:
      (1) LEAD MATERIAL: NICKEL PER MW 105400. MATERIAL CERTIFICATION SHALL ACCOMPANY EACH SHIPMENT.
   B. ELECTRICAL CHARACTERISTICS (AT 25 ± 0.1°C UNLESS OTHERWISE SPECIFIED):
      (1) RESISTANCE VALUE: 4000 OHMS.
      (2) RESISTANCE TOLERANCE: ±1%
      (3) RESISTANCE-TEMPERATURE CHARACTERISTIC (FROM +25° TO +105°C): ±400 ± 300 PPM/°C.
   C. DESIGN REQUIREMENTS:
      A. RATINGS:
         (1) MAXIMUM WORKING VOLTAGE: 100 VOLTS.
         (2) POWER DISSIPATION: 25 WATTS AT +105°C DERATED LINEARLY TO 10 WATTS AT +105°C. (SEE FIGURE 1.)
         (3) RESISTANCE-VALUE STABILITY (LOW RANGE): 30 PARTS PER MILLION FOR ONE YEAR AND 50 PARTS PER MILLION FOR A 3 YEAR PERIOD.
      B. OPERATING LIFE: 2000 HOURS MINIMUM AT FULL RATED WATTAGE.
      C. STORAGE LIFE: 1 YEAR MINIMUM AT ROOM TEMPERATURE WITHOUT ELECTRICAL CHANGE.
      D. CONSTRUCTION: ENCAPSULATED, WIREWOUND RESISTANCE ELEMENT.
   D. SPECIAL CONDITIONING:
      A. TEMPERATURE CYCLING: ALL RESISTORS SHALL BE TEMPERATURE CYCLED IN ACCORDANCE WITH MIL-R-49, PARAGRAPH 4.5.4. ALL PARTS NOT MEETING PARAGRAPH 2.8.2 OF THIS SPECIFICATION AFTER TEST SHALL BE REJECTED.
      B. BURN IN: ALL RESISTORS SHALL BE SUBJECTED TO A 24 HOUR FULL POWER BURN IN AT 105°C AMBIENT TEMPERATURE. THE CHANGE IN RESISTANCE SHALL NOT EXCEED 0.2%. DO NOT SHIP ANY PARTS WHICH ARE BEYOND PURCHASE TOLERANCE AT CONCLUSION OF TEST.

4. SPECIAL CONDITIONING:
   A. TEMPERATURE CYCLING: ALL RESISTORS SHALL BE TEMPERATURE CYCLED IN ACCORDANCE WITH MIL-R-49, PARAGRAPH 4.5.4. ALL PARTS NOT MEETING PARAGRAPH 2.8.2 OF THIS SPECIFICATION AFTER TEST SHALL BE REJECTED.
   B. BURN IN: ALL RESISTORS SHALL BE SUBJECTED TO A 24 HOUR FULL POWER BURN IN AT 105°C AMBIENT TEMPERATURE. THE CHANGE IN RESISTANCE SHALL NOT EXCEED 0.2%. DO NOT SHIP ANY PARTS WHICH ARE BEYOND PURCHASE TOLERANCE AT CONCLUSION OF TEST.

5. SPECIAL CONDITIONS:
   A. TEMPERATURE CYCLING: ALL RESISTORS SHALL BE TEMPERATURE CYCLED IN ACCORDANCE WITH MIL-R-49, PARAGRAPH 4.5.4. ALL PARTS NOT MEETING PARAGRAPH 2.8.2 OF THIS SPECIFICATION AFTER TEST SHALL BE REJECTED.
   B. BURN IN: ALL RESISTORS SHALL BE SUBJECTED TO A 24 HOUR FULL POWER BURN IN AT 105°C AMBIENT TEMPERATURE. THE CHANGE IN RESISTANCE SHALL NOT EXCEED 0.2%. DO NOT SHIP ANY PARTS WHICH ARE BEYOND PURCHASE TOLERANCE AT CONCLUSION OF TEST.

PROCUREMENT ONLY FROM APPROVED SOURCES LISTED IN ND 1002057 FOR THIS DRAWING.