REQUIREMENTS:

1. GENERAL:
   A. INTERPRET DRAWING IN ACCORDANCE WITH THE STANDARDS PRE-
      SCRIBED BY MIL-STD-7037.
   B. UNITS SHALL CONFORM TO THE REQUIREMENTS OF MIL-T-271
      GRACE 5, CLASS 5 EXCEPT AS, AND IN ADDITION TO THE REQUIRE-
      MENTS SPECIFIED HEREIN.
   C. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS
      CONTAINED IN ND 1015404, CLASS 2.
   D. UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION RE-
      QUIREMENTS OF ND 100047.
   E. PART MARKING: UNITS SHALL BE PERMANENTLY AND LEGIBLY
      MARKED, IN ACCORDANCE WITH ND 100049, WITH THE MANU-
      FACTURER'S NAME AND/OR SYMBOL, INDUCTANCE VALUE, DC
      RESISTANCE, LOT CODE, SERIAL NUMBER, AND NASA PART NUMBER
      (DRAWING NUMBER AND REVISION LETTER).
   F. PREPARATION FOR DELIVERY SHALL BE IN ACCORDANCE
      WITH ND 100215, CLASS 1, CODE 1.
      (1) MARKING OF SHIPPING CONTAINERS SHALL CONFORM TO
          THE MARKING OF UNIT AND INTERMEDIATE PACKAGES AND THE
          METHODS OF MARKING AS SPECIFIED IN ND 100215.

2. ACCEPTANCE AND INSPECTION (100% UNLESS OTHERWISE SPECIFIED):
   A. MECHANICAL PROPERTIES:
      (1) DIMENSIONS: AS DOLLINED HEREIN.
      (2) MAKING: AS SPECIFIED FOR PART MARKING.
   B. ELECTRICAL CHARACTERISTICS:
      (1) INDUCTANCE: 80 MICROHENRIES ± 15% AT 7.0 AMPERES
          DC ± 10%. TEST FREQUENCY 15 50 KC ± 1% AT 5 VAMS
          ± 1%. (2) DC RESISTANCE: 0.020OHMS MAXIMUM.
      (3) DIELECTRIC WITHSTANDING VOLTAGE: 500 VAMS BETWEEN
          THE WINDING AND ANY SURFACE (RESTING ON A METAL PLATE)
          NOT HAVING LEADS.
      (4) INSULATION RESISTANCE: 10,000 MEGOHMS MINIMUM AT
          500 VAMS BETWEEN THE WINDING AND ANY SURFACE (RESTING ON
          A METAL PLATE) NOT HAVING LEADS.
   C. VENDOR SUPPLIED DATA: EACH SHIPMENT OF PARTS SHALL BE
      ACCOMPANIED BY THE FOLLOWING DOCUMENTATION.
      (1) CERTIFICATE OF COMPLIANCE WITH ND 1015404, CLASS 2.
      (2) CERTIFIED TEST DATA FOR BURN-IN REQUIREMENT (NOTE 4).

3. DESIGN:
   A. CONSTRUCTION:
      (1) CASE: UNIT SHALL BE ENCAPSULATED WITH A MINIMUM
          PUTTING COVERAGE OF 0.031 INCH OVER CORE AND WINDING.
      (2) LEAD MATERIAL: ANNEALED TINNED COPPER WIRE.
      (3) LEAD PULL: EACH LEAD SHALL BE CAPABLE OF WITHSTANDING
          (WITHOUT MECHANICAL DAMAGE OR LACK OF PERFORMANCE) A
          4 POUND MINIMUM AXIAL PULL, APPLIED WITHOUT SHOCK.
      (4) INTERNAL WIRE: MAGNET WIRE SHALL BE 0.0029 OHA
          (NO. 41 AWG) MINIMUM.

4. SPECIAL CONDITIONS: ALL UNITS SHALL BE BURNED IN BY THE
   SUPPLIER AND CERTIFIED TEST DATA SUPPLIED WITH EACH SHIPMENT.
   A. OPERATING CONDITIONS: OPERATE THE UNIT AT 85°C AMBIENT
      FOR 50 HOURS WITH 7.0 AMPERES DC FLOWING.
   B. MEASUREMENTS: INDUCTANCE AND DC RESISTANCE SHALL BE
      MEASURED (AND RECORDED) BEFORE AND WITHIN 4 HOURS AFTER
      BURN-IN AT (25°C) ROOM TEMPERATURE.
   C. REJECTION: ANY UNIT THAT EXCEEDS TOLERANCE SPECIFIED
      HEREIN, OR CHANGES MORE THAN 5% BETWEEN INITIAL AND FINAL
      MEASUREMENTS, SHALL NOT BE SHIPPED.

   ELECTRICAL SCHEMATIC

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 100304 FOR THIS DRAWING.