PRELIMINARY RELEASE CLASS A

REQUIREMENTS:

1. GENERAL:
   A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
   B. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED
      IN HD 1015400, CLASS 2.
   C. UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION REQUIREMENTS
      OF HD 1002047.
   D. UNITS SHALL MEET THE APPLICABLE REQUIREMENTS OF MIL-T-21038, GRADE 7,
      CLASS R. LIFE EXPECTANCY X WITH THE EXCEPTIONS AND ADDITIONS SPECIFIED
      HEREIN. QUALIFICATION APPROVAL NOT REQ'D.

2. INSPECTION AND ACCEPTANCE: (100% UNLESS OTHERWISE SPECIFIED)
   A. MECHANICAL REQUIREMENTS:
      (1) LEADS SHALL BE IN ACCORDANCE WITH HD 1015400. A CERTIFICATE OF
          COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH SHIPMENT.
      (2) COLOR SHALL BE RED
      (3) MARKING: UNITS SHALL BE MARKED IN ACCORDANCE WITH HD 1002019
          WITH THE MANUFACTURER'S NAME OR SYMBOL, PART NUMBER, DATE NO.,
          LEAD IDENTIFICATION, NASA DRAWING NUMBER AND REVISION LETTER.
          GOTHIC SHAPED STYLE IS PERMISSIBLE
   B. ELECTRICAL REQUIREMENTS: APPLICABLE PARAMETERS SHALL BE MEASURED
      USING A BOONTON 265A Q-METER OR EQUIVALENT
      (1) PRIMARY INDUCTANCE (Lp): 1.7 MH ± 20%, MEASURED AT TERMINALS 3-4
         WITH TERMINALS 1-2 OPEN. INPUT CAPACITANCE WILL BE ACCOUNTED FOR
         IN MEASUREMENT.
      (2) LEAKAGE INDUCTANCE (Ll): 2.3 MH MAXIMUM, MEASURED AT TERMINALS 3-4
         WITH TERMINALS 1-2 SHORT CIRCULATED
      (3) COUPLING CAPACITANCE (Cc): 20. UUF MAXIMUM, MEASURED BY SHORTING
         TERMINALS 1-2 AND TERMINALS 3-4 AND MEASURING THE CAPACITANCE
         BETWEEN THEM.
      (4) INPUT CAPACITANCE (Cg): 8.0 UUF MAXIMUM MEASURED AT TERMINALS 3-4
         WITH TERMINALS 1-2 OPEN.
      (5) WORKING VOLTAGE: 50 VOLTS MINIMUM AT 105°C.
      (6) DC RESISTANCE:
         (a) TERMINALS 1-2; 1.4 OHMS MAXIMUM
         (b) TERMINALS 1-2; 2.7 OHMS MAXIMUM
      (7) TURNS RATIO: 1 TO 2.35
      (8) WAVEFORM: FIGURE 1 WILL REPLACE THE TEST CIRCUIT, FIGURE 4 OF MIL-T-21038B.
         THE INPUT PULSE TRAIN SHALL HAVE A PULSE REPETITION RATE OF 108 CPS ± 10%.
         THE TRANSFORMER OUTPUT SHALL MEET THE FOLLOWING SPECIFICATIONS MEASURED
         AT STANDARD CONDITIONS EXCEPT AS OTHERWISE SPECIFIED: THIS TEST SHALL BE
         PERFORMED ON A SAMPLE OF EACH SHIPMENT WITH NO FAILURES ALLOWED.

3. DESIGN REQUIREMENTS:
   A. POWER RATING: 0.3 WATT AT 25°C DERATED LINEARLY TO .05 WATT AT 105°C.
   B. DIELECTRIC WITHSTANDING VOLTAGE AT REDUCE BAROMETRIC
      PRESSURE: IN ACCORDANCE WITH PARAGRAPH 4.8.4.2 OF MIL-T-21038B.
      TEST CONDITION E IN METHOD 105 OF MIL-STD-202 SHALL APPLY.
   C. UNITS SHALL BE ENCAPSULATED.
   D. WIRE SIZE: AWG 41 OR LARGER.
   E. OPERATING TEMPERATURE RANGE: 20°C TO 105°C.

4. SPECIAL CONDITIONING (BY MANUFACTURER): 100%
   EACH UNIT SHALL BE TUP CIRCULATED BEFORE THERMAL CIRCUIT.
   THE INPUT PULSE TRAIN SHALL HAVE A PULSE REPETITION RATE OF 108 CPS ± 10%.
   THE TRANSFORMER OUTPUT SHALL MEET THE FOLLOWING SPECIFICATIONS MEASURED
   AT STANDARD CONDITIONS EXCEPT AS OTHERWISE SPECIFIED: THIS TEST SHALL BE
   PERFORMED ON A SAMPLE OF EACH SHIPMENT WITH NO FAILURES ALLOWED.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN HD 1002047 FOR THIS DRAWING