REQUIREMENTS:

1. GENERAL:
   A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
   B. UNITS SHALL MEET THE REQUIREMENTS OF MIL-S-19500 WITH THE EXCEPTIONS AND ADDITIONS SPECIFIED HEREIN.
   C. SUPPLIERS SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 105404, CLASS 2
   D. UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION REQUIREMENTS OF ND 1002054.
   E. MARKING:
      (1) UNITS: DIODES SHALL BE MARKED WITH COLORED BANDS IN ACCORDANCE WITH MIL-S-19500 DENOTING THE TYPE AND INDICATING THE POSITIVE LEAD.
      (2) PACKAGE: UNIT PACKAGES AND SHIPPING CONTAINERS SHALL BE MARKED INTERNALLY AND EXTERNALLY PER MIL-STO-129 WITH THE MANUFACTURER'S NAME, LOT NUMBER, DATE OF MANUFACTURE, AND THE NASA DRAWING NUMBER AND REVISION LETTER.

2. ACCEPTANCE AND INSPECTION:
   A. MATERIAL: LEADS SHALL BE IRON-NICKEL ALLOY (OUMET) PER W1-114436. A CERTIFICATE OF COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH SHIPMENT.
   B. ELECTRICAL CHARACTERISTICS PER TABLE I:
      (1) ZENER VOLTAGE (z1):
      (2) ZENER IMPEDANCE (z2)

3. DESIGN:
   A. MAXIMUM RATINGS:
      (1) POWER DISSIPATION: 400 MILLIWATTS (SEE DERATING CURVE)
      (2) STORAGE TEMPERATURE: FROM MINUS 65°C TO PLUS 150°C
      (3) OPERATING TEMPERATURE: FROM MINUS 65°C TO PLUS 125°C
      (4) TEMPERATURE COEFFICIENT: PLUS OR MINUS .001 PERCENT PER DEGREE CENTIGRADE FROM ZERO TO 75°C WITH A ZENER CURRENT OF 4.0 MA
   B. ENCLOSURE: GLASS, HERMETICALLY SEALED

4. SPECIAL CONDITIONING BY SUPPLIER:
   A. UNITS SHALL BE BURNED-IN FOR 240 HOURS UNDER THE FOLLOWING CONDITIONS:
      (1) AMBIENT TEMPERATURE: 100°C PLUS OR MINUS 5°C.
      (2) ZENER CURRENT: 15 MA
      (3) POWER = 135 MW MINIMUM
   B. THE MANUFACTURER SHALL RECORD THE ELECTRICAL CHARACTERISTICS PER TABLE I PRIOR TO AND FOLLOWING BURN-IN. DATA SHALL BE SUPPLIED WITH THE PARTS.