1. GENERAL:
   A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70727.
   B. SHALL MEET THE REQUIREMENTS OF MIL-R-93 WITH ANY ADDITIONS AND EXCEPTIONS
      AS NOTED HEREIN.
   C. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN
      SHIP 1015404, CLASS 2.
   D. MARKING: UNITS SHALL BE MARKED IN ACCORDANCE WITH MIL-STD-129 WITH RESISTANCE
      VALUE, TOLERANCE, MANUFACTURER'S NAME OR SYMBOL AND TYPE NUMBER. THE CONTAINER
      SHALL BE MARKED IN ACCORDANCE WITH MIL-STD-129 WITH THE MANUFACTURER'S NAME, IDENTIFYING
      NUMBER, ITEM NAME, NASA DRAWING NUMBER, DASH NUMBER AND REVISION LETTER.
   E. MARKING ON DRAWING:
      (1) LEADS SHALL BE DHEET PER NO P5-105401.
      (2) RESISTANCE TOLERANCE: ± 3 PERCENT.
      (3) POWER RATING: 1/4 Watt.
      (4) OPERATING TEMPERATURE RANGE: -55°C TO 145°C.
      (5) TEMPERATURE COEFFICIENT: ± 20 PPM/DEGREE C.
      (6) MAXIMUM CONTINUOUS WORKING VOLTAGE: 77 VOLTS.

2. ACCEPTANCE AND INSPECTION:
   A. MECHANICAL PROPERTIES:
      (1) LEADS SHALL BE BENT PER MIL-STD-866.
   B. ELECTRICAL CHARACTERISTICS:
      (1) RESISTANCE SHALL BE AS SPECIFIED IN TABLE.
      (2) RESISTANCE TOLERANCE: ± 3 PERCENT.
      (3) POWER RATING: 1/4 Watt.
      (4) OPERATING TEMPERATURE RANGE: -55°C TO 145°C.
      (5) TEMPERATURE COEFFICIENT: ± 20 PPM/DEGREE C.
      (6) MAXIMUM CONTINUOUS WORKING VOLTAGE: 77 VOLTS.

3. SPECIAL CONDITIONING BY SUPPLIER:
   UNITS SHALL BE BURNED IN AT TEMPERATURE RANGE OF RATED POWER 63°C FOR
   48 HOURS. RESISTANCE CHANGE FROM INITIAL VALUE SHALL NOT
   EXCEED 1%.

### Table: Resistor Design Application Derating Curve

<table>
<thead>
<tr>
<th>Dash No</th>
<th>Resistance in Ohms</th>
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<tbody>
<tr>
<td>1</td>
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<tr>
<td>12</td>
<td>43</td>
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</tbody>
</table>

100% RESISTANCE OF RATED POWER

100°C 125°C 145°C

TEMPERATURE

DESIGN APPLICATION DERATING CURVE

(REF ONLY)

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

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

SPECIFICATION CONTROL DRAWING

RESISTOR, FIXED, WIREWOUND

INSTRUMENTATION LAB

MIL-R-93

C 1006788