REQUIREMENTS:

1. GENERAL:
   a. UNITS SHALL BE CAPABLE OF MEETING THE APPLICABLE REQUIREMENTS OF MIL-R-93 CHARACTERISTIC C; EXCEPT AS AND IN ADDITION TO THE REQUIREMENTS SPECIFIED HEREIN.
   b. PACKAGING: UNITS SHALL BE PACKAGED PER MIL-100219.
   c. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS OF MIL-1015404 CLASS 2.
   d. INTERPRET DRAWING IN ACCORDANCE WITH GOVERNMENT STANDARDS PRESCRIBED IN MIL-D-70327.

2. INSPECTION AND ACCEPTANCE:
   a. RESISTANCE VALUES: SEE TABLE.
   b. RESISTANCE TOLERANCE: SEE TABLE.
   c. TEMPERATURE COEFFICIENT: ABOVE 10 Ω 15 PPM/°C, EXCEPT AS SPECIFIED IN NOTE 2.
   d. LEAD DATA: WELDABLE GRADE A GOLD PLATED NICKEL.
   e. MARKING: MARK UNITS WITH THE NASA PART NUMBER.
   f. PACKAGING: UNITS SHALL BE PACKAGED PER MIL-100219.
   g. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS OF MIL-R-93 CHARACTERISTIC C; EXCEPT AS AND IN ADDITION TO THE REQUIREMENTS SPECIFIED HEREIN.

3. DESIGN REQUIREMENTS:
   a. POWER RATINGS: 1/10 WATT AT 125°C DEVIATED TO ZERO AT 145°C.
   b. MAXIMUM VOLTAGE RATING: 250 VOLTS.
   c. STABILITY: 100 PPM/YEAR AT 145°C.
   d. TEMPERATURE RANGE: MINUS 65°C TO PLUS 125°C.
   e. EACH LEAD SHALL BE CAPABLE OF WITHSTANDING TWO (2) BENDS UNDER A TWO (2) POUNDS VERTICAL PULL (LEADS VERTICAL WITH RESPECT TO UNIT BODY). TWO (2) LEADS SHALL BE ACCOMPLISHED BY MOVING THE BODY OF THE UNIT, WHILE IN THE PLANE, THROUGH 90° IN ONE DIRECTION, THEN BACK 90° TO THE GESTALT POSITION, NO REVERSAL, NO MECHANICAL DAMAGE OR LACK OF PERFORMANCE SHALL BE EVIDENCED AFTER THE TEST.
   f. EACH LEAD SHALL BE CAPABLE OF WITHSTANDING AN AXIAL PULL OF FOUR (4) POUNDS MINIMUM.

4. SPECIAL CONDITIONING BY SUPPLIER:
   a. BURN IN: 1000 HOURS @ 125°C @ 1/10 WATT (AC OR DC). REJECT ANY PART WHICH CHANGES MORE THAN 0.15% OR CANNOT MEET PURCHASE TOLERANCE.

NOTES:

1. RESISTANCE VALUES ABOVE 35K ARE NOT AVAILABLE, PER THE REQUIREMENTS OF THIS DRAWING AND MIL-R-93, USING .001 MIL, #11, WIRE.

PROCURE ONLY FROM APPROVED SOURCES LISTED ON NO1002034 FOR THIS DRAWING.
### Table: Resistors, Fixed, WW, Precision

<table>
<thead>
<tr>
<th>Res No.</th>
<th>Res. TOL</th>
<th>Res No.</th>
<th>Res. TOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>225</td>
<td>880</td>
<td>225</td>
<td>880</td>
</tr>
<tr>
<td>226</td>
<td>890</td>
<td>226</td>
<td>890</td>
</tr>
<tr>
<td>227</td>
<td>900</td>
<td>227</td>
<td>900</td>
</tr>
</tbody>
</table>

**Note:**
- Dash 30T to 313 and Dash 315, 316 shall have temp coefficient of 3 ppm/°C between the temperatures of 20°C to 65°C.
- Shall have special stability feature of 50 ppm/°C at 25°C at 1/2 rated power.

---

**K. Replaces J with Change**

**List of Materials**

- Material
- Manned Spacecraft Center
- Houston, Texas

**Resistors, Fixed, WW, Precision**

- Specification Control Drawing
- NASA Approval 10030377
- Code: C 1010377

---

**Instrumentation Lab**

- MIT

---

**Heat Treatment**

- Used on Final Finish

---

**Scale**

- Photographic Scale Only

---

**Dimensions:**

- In inches

---

**Tolerances:**

- ± 1 %