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-90202F.
   c. Supplier shall conform to the quality assurance provisions of NSN 1014404 Class 2.
   d. Inspections and Acceptance:
      i. Resistance values: See Table C.
      ii. Resistance tolerance: See Table C.
      iii. Temperature coefficient: Above 10°C 15 PPM/°C, 10°C to 1 in 30 PPM/°C, 1°C and below 40 PPM/°C.

2. Inspection and Acceptance:
   a. Resistance values: See Table C.
   b. Resistance tolerance: See Table C.
   c. Temperature coefficient: Above 10°C 15 PPM/°C, 10°C to 1 in 30 PPM/°C, 1°C and below 40 PPM/°C.

3. Design Requirements:
   a. Power rating: 1/10 watt at 125°C derated to zero at 124°C.
   b. Maximum voltage rating: 150 volts.
   c. Stabilization: 100 PPM/year at 22°C to 1/2 rated power.
   d. Temperature range: Minus 65°C to plus 120°C.
   e. Each lead shall be capable of withstanding two (2) bends under a two (2) pound vertical pull (Leads vertical with respect to unit body). Two (2) bends shall be accomplished by moving the body of the unit, while in the plane, through 90° in one direction, then back 180° to the opposite direction and back 90° to the original position. No mechanical damage or lack of performance shall be evidenced after the test.
   f. Each lead shall be capable of withstand an axial pull of four (4) pounds minimum.

4. Special Conditioning by Supplier:
   a. Burn-in: 100 hours @ 125°C @ 1/10 watt (AC or DC). Reject any part which changes more than 0.1% or cannot meet purchase tolerance.

NOTES:
3. Resistance values above 35K are not available, per the requirements of this drawing and MIL-R-93, using .003 min., DIA., wire.
4. Special Conditioning by Supplier: Burn-in: 100 hours @ 125°C @ 1/10 watt (AC or DC). Reject any part which changes more than 0.1% or cannot meet purchase tolerance.

This requirement shall accompany each lot shipped.

THE REQUIRES REV J WITH CHANGE

K REPLACES REV J WITH CHANGE

MANNED SPACECRAFT CENTER
RESISTORS, FIXED, WW, PRECISION
SPECIFICATION CONTROL DRAWING

MIL-R-93, USING .003 MIN, DIA., WIRE.

PROCURE ONLY FROM APPOVED SOURCES LISTED ON M02203 FOR THIS DRAWING

NOTE: UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES, TOLERANCES IN .005, FRACTIONS IN DECIMALS, ANGLES IN DEGREES, SCALES IN INCHES.
**NOTICE** — WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT PROCUREMENT OPERATION, THE UNITED STATES GOVERNMENT HEREBY INCURS NO RESPONSIBILITY NOR ANY OBLIGATION WHATSOEVER.

**K REPLACES J WITH CHANGE**

<table>
<thead>
<tr>
<th>UNIT</th>
<th>PART IDENTIFYING NO.</th>
<th>LIST OF MATERIALS</th>
<th>FIND NO.</th>
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**INSTRUMENTATION LAB**

**NASA MANNED SPACECRAFT CENTER HOUSTON, TEXAS**

**RESISTORS, FIXED, WW, PRECISION**

**SPECIFICATION CONTROL DRAWING**

**MATERIAL**

**TOLERANCES ON FRACTIONS DECIMALS ANGLES**

**UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES**

**CODE OF DRAWINGS**

**NOMENCLATURE OR DESCRIPTION**

**DRAWN**

**MATERIAL**

**HEAT TREATMENT**

**FABRICATION**

**NOTE**

**INCHES**

**PHOTOGRAPHIC SCALE ONLY**