

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 THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT MAY HAVE FORMULATED, FURNISHED, OR IN ANY WAY SUPPLIED THE SAID DRAWINGS, SPECIFICATIONS OR OTHER DATA IS NOT TO BE REGARDED BY IMPLICATION OR OTHERWISE AS IN ANY MANNER LICENSING THE HOLDER OR ANY OTHER PERSON OR CORPORATION, OR CONVEYING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE, OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

#### REQUIREMENTS:

##### 1. GENERAL:

- UNITS SHALL BE CAPABLE OF MEETING THE REQUIREMENTS OF SPECIFICATION MIL-R-26 FOR INSULATED TYPE; EXCEPT AS SPECIFIED HEREIN.
- UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION REQUIREMENTS SPECIFIED IN ND 1002057 UNLESS MODIFIED OR AMENDED BY THE DESIGN REQUIREMENTS SECTION OF THIS DRAWING.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS SPECIFIED IN ND 1015404, CLASS 2.
- INTERPRET DRAWING SYMBOLS, ABBREVIATIONS AND REFERENCE DESIGNATIONS IN ACCORDANCE WITH GOVERNMENT STANDARDS PRESCRIBED IN MIL-D-70327.
- PACKAGING: UNITS SHALL BE PACKAGED IN ACCORDANCE WITH ND 1002129.

##### 2. INSPECTION AND ACCEPTANCE

###### A. ELECTRICAL REQUIREMENTS:

- RESISTANCE VALUE: PER TABLE
- RESISTANCE TOLERANCE:  $\pm 1\%$

###### B. MECHANICAL REQUIREMENTS:

- LEADS: IRON NICKEL ALLOY COPPER CLAD GOLD PLATED PER NASA SPECIFICATION PS 1015401. A CERTIFICATE OF COMPLIANCE OF LEAD MATERIAL SHALL ACCOMPANY EACH LOT SHIPPED.
- MARKING: MARK UNITS PER ND1002019 WITH MANUFACTURER'S NAME AND/OR SYMBOL, NASA PART NUMBER, AND REVISION LETTER, DATE CODE. MANUFACTURER'S PART NUMBER MAY APPEAR ON THE PART OR PACKAGE. MARKING OF UNIT PACKAGES AND EXTERIOR SHIPPING CONTAINERS SHALL INCLUDE NASA PART NUMBER AND REVISION LETTER, PER MIL-STD-129.

##### 3. DESIGN REQUIREMENTS:

- PER MIL-R-26 EXCEPT AS MODIFIED BY THIS DRAWING.
- POWER RATING: 1 WATT AT  $+25^{\circ}\text{C}$ , DERATED PER CHART.
- TEMPERATURE COEFFICIENT:  $\pm 30$  PPM/ $^{\circ}\text{C}$  UP TO  $+275^{\circ}\text{C}$ .
- 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 SAME PLANE, THROUGH  $90^{\circ}$  IN ONE DIRECTION, THEN BACK  $180^{\circ}$  TO THE OPPOSITE DIRECTION, THEN BACK  $90^{\circ}$  TO THE ORIGINAL POSITION. NO MECHANICAL DAMAGE OR LACK OF PERFORMANCE SHALL BE EVIDENCED AFTER THE TEST.
- MECHANICAL STRENGTH: PER MIL-R-26 EXCEPT 5 LB. MAX LOAD

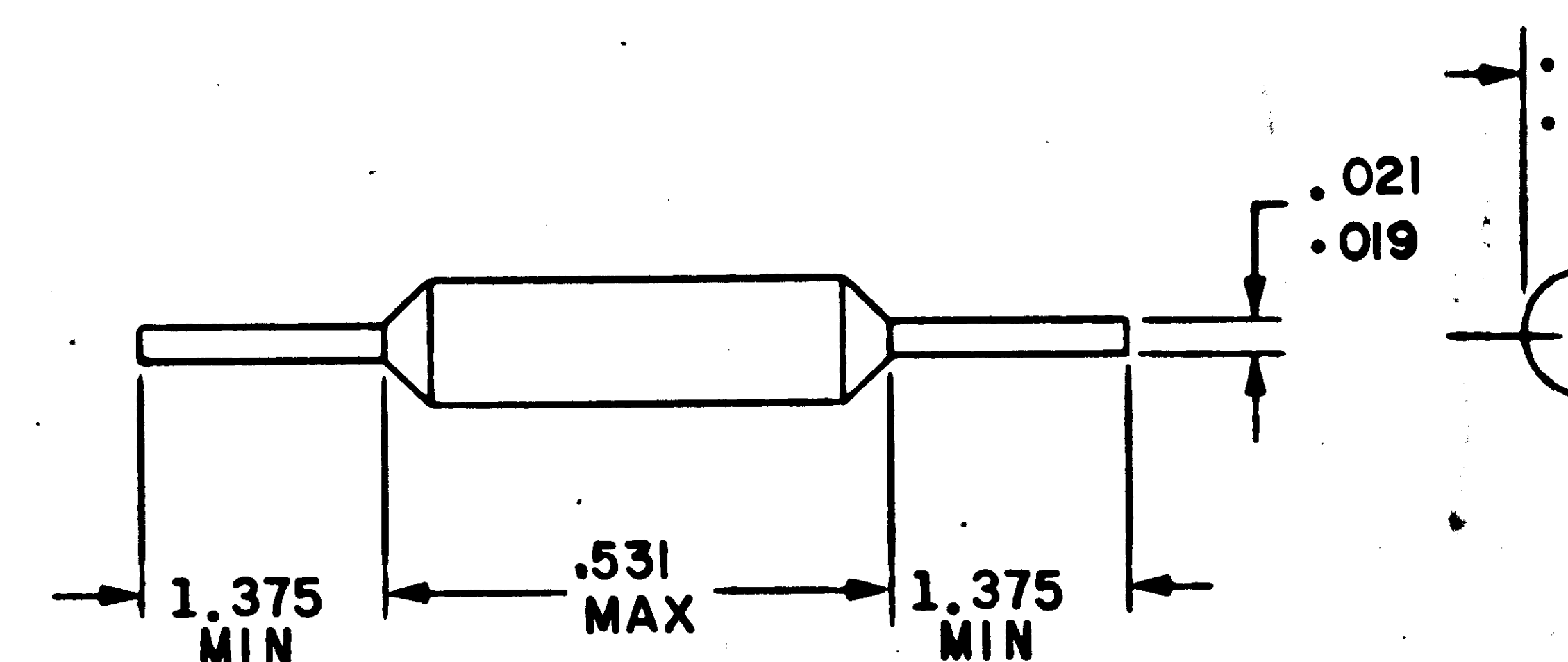
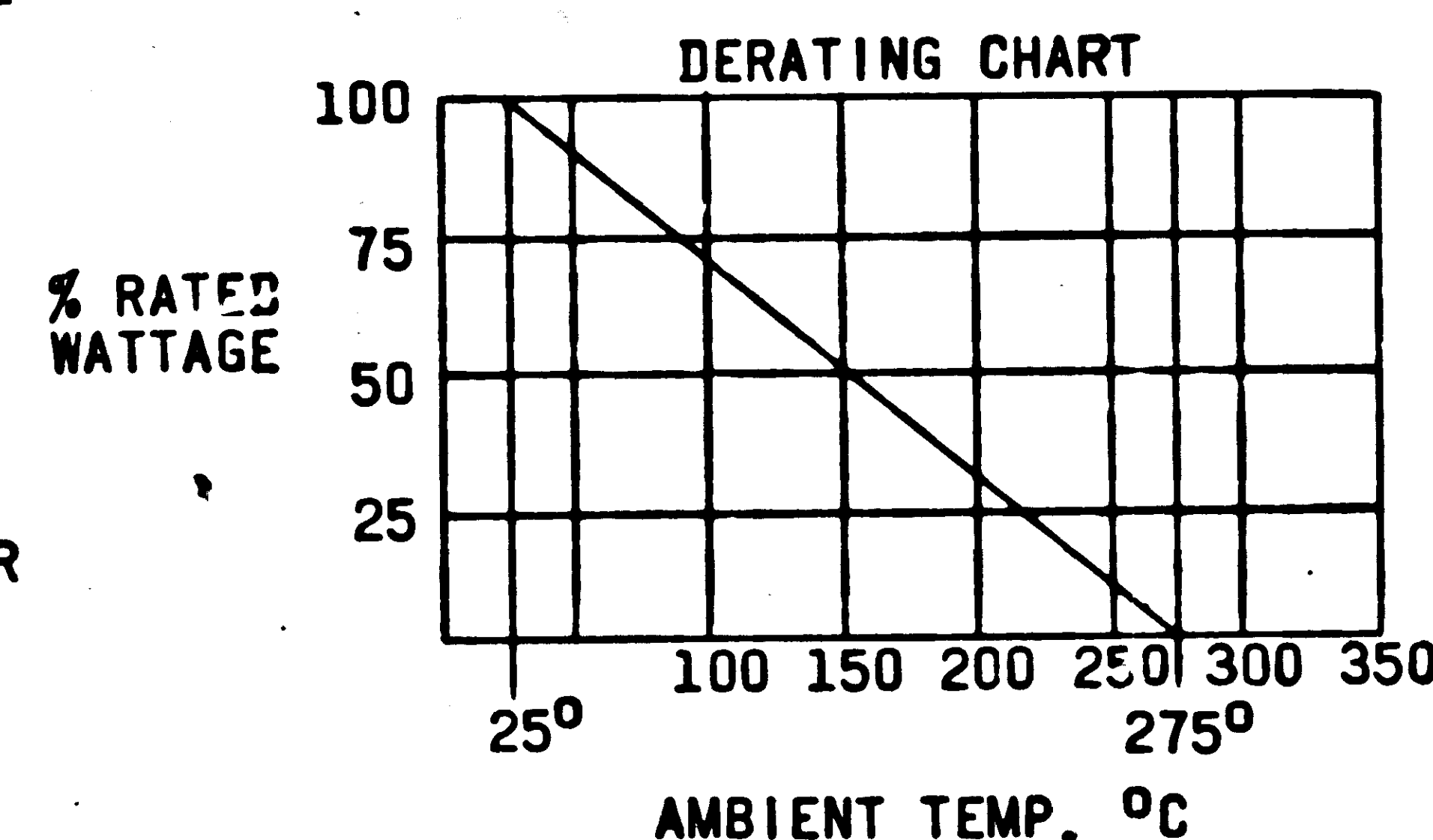
##### 4. SPECIAL CONDITIONING BY SUPPLIER:

- BURN-IN: UNITS SHALL BE BURNED-IN FOR 100 HRS AT  $25^{\circ}\text{C}$  AND RATED WATTAGE 1-1/2 HRS ON, 1/2 HR OFF, UNITS THAT EXCEED THE INITIAL TOLERANCE OR CHANGE MORE THAN .5% SHALL BE REJECTED.

PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

| NASA PART NUMBER | RESISTANCE OHMS NOMINAL | NASA PART NUMBER | RESISTANCE OHMS, NOMINAL |
|------------------|-------------------------|------------------|--------------------------|
| 1                | 600                     | 23               | 1                        |
| 2                | 610                     | 24               | 2                        |
| 3                | 620                     | 25               | 3                        |
| 4                | 630                     | 26               | 4                        |
| 5                | 640                     | 27               | 5                        |
| 6                | 650                     | 28               | 6                        |
| 7                | 660                     | 29               | 7                        |
| 8                | 670                     | 30               | 8                        |
| 9                | 680                     | 31               | 9                        |
| 10               | 690                     | 32               | 10                       |
| 11               | 700                     | 33               | 100                      |
| 12               | 710                     | 34               | 1800                     |
| 13               | 720                     | 35               | 430                      |
| 14               | 730                     | 36               | 0.75                     |
| 15               | 740                     | 37               | 300                      |
| 16               | 750                     | 38               | 3300                     |
| 17               | 760                     | 39               | 2000                     |
| 18               | 770                     |                  |                          |
| 19               | 780                     |                  |                          |
| 20               | 790                     |                  |                          |
| 21               | 800                     |                  |                          |
| 22               | 1000                    |                  |                          |

B. THE COMPLETE PART NUMBER IS THIS DRAWING NUMBER PLUS THE APPLICABLE DASH NUMBER.



|   |         |       |
|---|---------|-------|
| UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES |         |       |
| $\pm$   | $\pm$   | $\pm$ |
| DO NOT SCALE THIS DRAWING MATERIAL  |         |       |
| SEE NOTES   |         |       |
| HEAT TREATMENT NONE   |         |       |
| FINAL FINISH NONE   |         |       |
| NEXT ASSY   | USED ON |       |
| APPLICATION   |         |       |

|   |                         |                             |
|---|-------------------------|-----------------------------|
| QTY REQD  | PART OR IDENTIFYING NO. | NOMENCLATURE OR DESCRIPTION |
|   |                         |                             |
| LIST OF MATERIALS   |                         |                             |
| MIT INSTRUMENTATION LAB CAMBRIDGE MASS 01543                    |                         |                             |
| MANNED SPACECRAFT CENTER HOUSTON, TEXAS                         |                         |                             |
| RESISTOR, FIXED, WIREWOUND 1 WATT SPECIFICATION CONTROL DRAWING |                         |                             |
| DRAWN <i>L. J. [unclear]</i> DATE 24 JUL 63                     |                         |                             |
| CHECKED <i>[unclear]</i> DATE 27 JUL 63                         |                         |                             |
| APPROVAL <i>[unclear]</i> DATE 8/13/63                          |                         |                             |
| NASA APPROVAL <i>[unclear]</i> DATE 8-14-63                     | CODE IDENT NO.          | SIZE                        |
| MIT APPROVAL <i>[unclear]</i> DATE 11/27/63                     |                         | C                           |
|   | SCALE NONE              | WT                          |
|   |                         |                             |

