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REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- UNITS SHALL MEET THE REQUIREMENTS OF MIL-R-93 WITH ANY ADDITIONS AND EXCEPTIONS AS NOTED HEREIN.
- SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404 CLASS 2.
- MARKING: UNITS SHALL BE MARKED IN ACCORDANCE WITH MIL-STD-130 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.
- LEADS SHALL BE NICKEL IN ACCORDANCE WITH ND 1015400. A CERTIFICATE OF COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH SHIPMENT.

2. ACCEPTANCE AND INSPECTION:

- MECHANICAL DIMENSIONS PER DRAWING.
- ELECTRICAL:
 - RESISTANCE SHALL BE AS SPECIFIED IN TABLE.
 - RESISTANCE SHALL BE MEASURED $3/8 \pm 1/64$ INCH FROM THE RESISTOR BODY.
 - RESISTANCE TOLERANCE: $\pm 1\%$

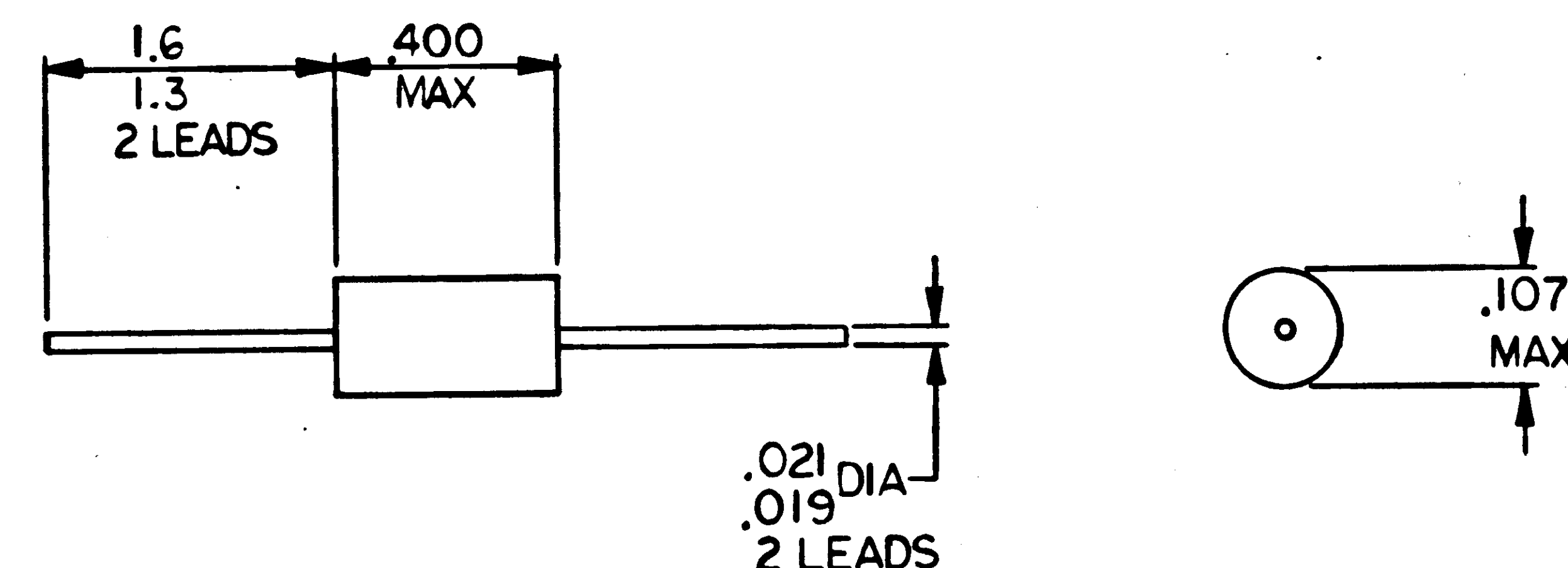
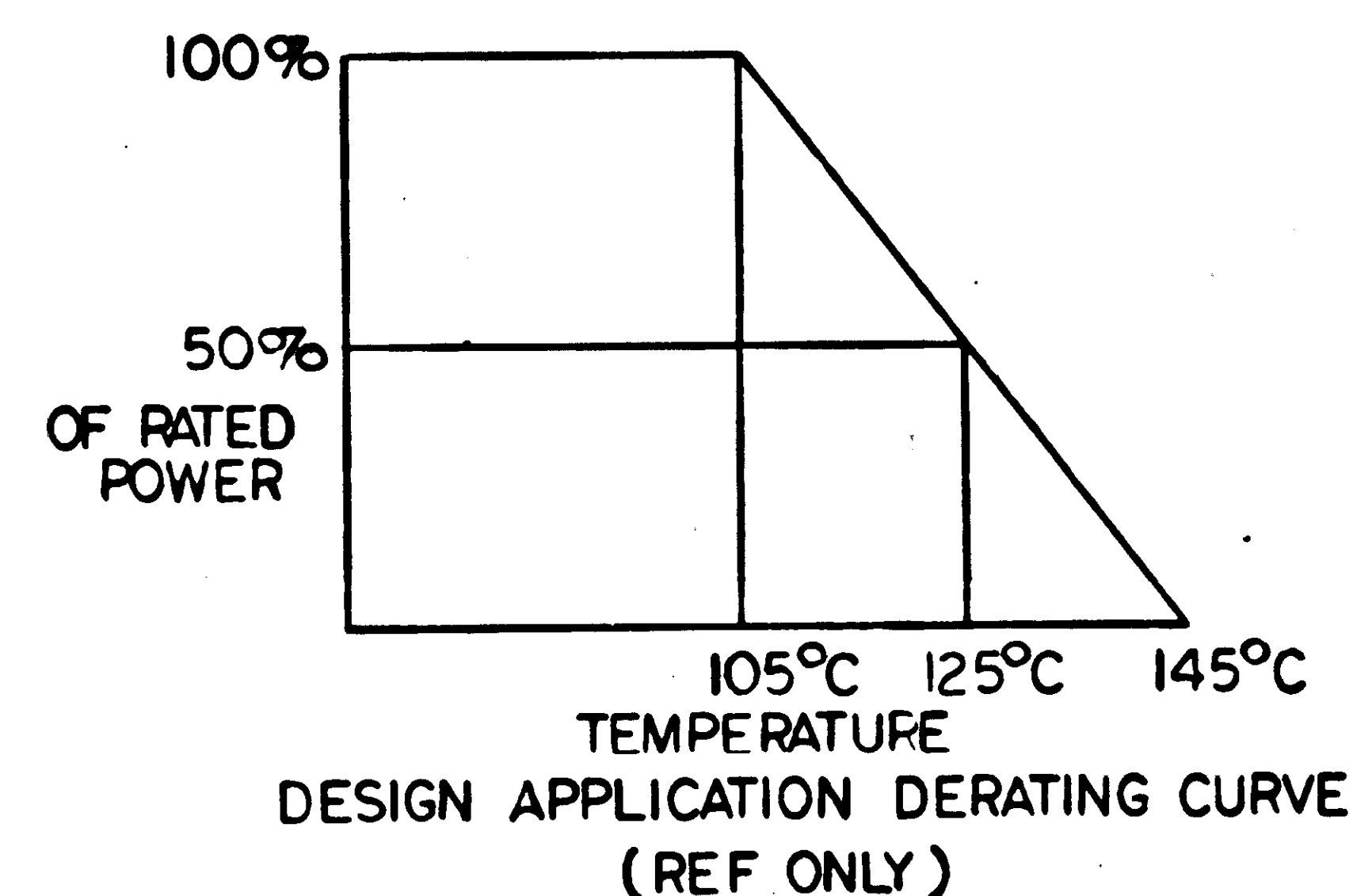
3. DESIGN REQUIREMENTS:

- POWER RATING: 1/4 WATT
- OPERATING TEMPERATURE RANGE: -55°C TO 145°C
- TEMPERATURE COEFFICIENT: 50 PPM/ $^{\circ}\text{C}$

4. SPECIAL CONDITIONING BY SUPPLIER:

- TEMPERATURE CYCLING
 - ALL RESISTORS SHALL BE TEMPERATURE CYCLED IN ACCORDANCE WITH MIL-R-93 PARAGRAPH 4.6.4. ALL PARTS NOT MEETING PARAGRAPH 2.8.1, AND 3 AFTER TEST SHALL BE REJECTED.
- BURN IN:
 - ALL RESISTORS SHALL BE SUBJECTED TO A 50 HOUR FULL POWER BURN IN AT 125°C AMBIENT TEMPERATURE. UNITS EXHIBITING A VARIATION OF RESISTANCE IN EXCESS OF $\pm 0.2\%$ OR CHANGE OUTSIDE OF SPECIFIED TOLERANCE SHALL BE REJECTED. RESISTANCE SHALL BE MEASURED BEFORE AND AFTER TEST, AND DATA IDENTIFIABLE TO EACH RESISTOR SUPPLIED WITH EACH SHIPMENT.

| DASH NO. | RESISTANCE IN OHMS |
|----------|--------------------|
| 1 | 4.7 |
| 2 | 4.8 |
| 3 | 4.9 |
| 4 | 5.0 |
| 5 | 5.1 |
| 6 | 10 |
| 7 | 15 |
| 8 | 20 |
| 9 | 27 |
| 10 | 33 |
| 11 | 39 |
| 12 | 47 |
| 13 | 19.5 |
| 14 | 20.5 |
| 15 | 2.4 |
| 16 | 1.7 |
| 17 | 1.75 |
| 18 | 1.8 |
| 19 | 1.85 |
| 20 | 1.9 |
| 21 | 1.95 |
| 22 | 2.0 |
| 23 | 2.05 |
| 24 | 2.1 |
| 25 | 2.15 |
| 26 | 2.2 |
| 27 | 2.25 |
| 28 | 2.3 |



© REPLACES REV B WITH CHANGES

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

MASTER

| | | |
|-------------|---------|---|
| | | 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 | FIND NO. |
| | | LIST OF MATERIALS | |
| | MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. | MANNED SPACECRAFT CENTER HOUSTON, TEXAS | |
| | DRAWN <i>R. Kane</i> DATE <i>20 May 63</i> CHECKED <i>George R. R. 20 May 63</i> APPROVAL <i>Edmund C. Hall 22 May 63</i> | RESISTOR, FIXED, WIREWOUND SPECIFICATION CONTROL DRAWING | |
| | NASA APPROVAL <i>L. J. Schmitt 5/22/63</i> MIT APPROVAL <i>L. J. Schmitt 5/22/63</i> | CODE IDENT NO. C SIZE C SCALE NONE WT | NASA DRAWING NO. 1006788 SHEET 1 OF 1 |

