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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:
1100 OHMS AND ABOVE = ± 20 PPM/ $^{\circ}\text{C}$
20 OHMS TO 1090 OHMS = ± 30 PPM/ $^{\circ}\text{C}$
1 OHM TO 19.9 OHMS = ± 50 PPM/ $^{\circ}\text{C}$
1 OHM AND BELOW = ± 100 PPM/ $^{\circ}\text{C}$ ($\pm .05$ OHMS)
- 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° IN ONE DIRECTION, THEN BACK 180° TO THE OPPOSITE DIRECTION, THEN BACK 90° 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°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.

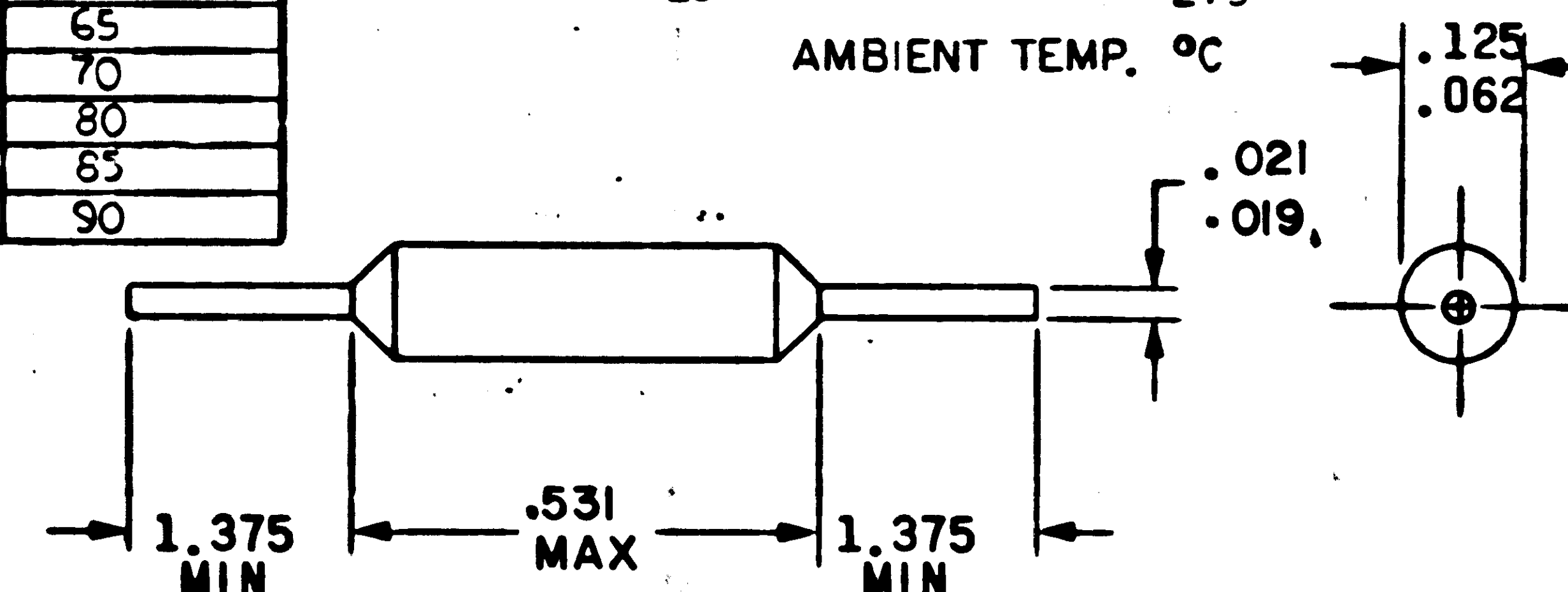
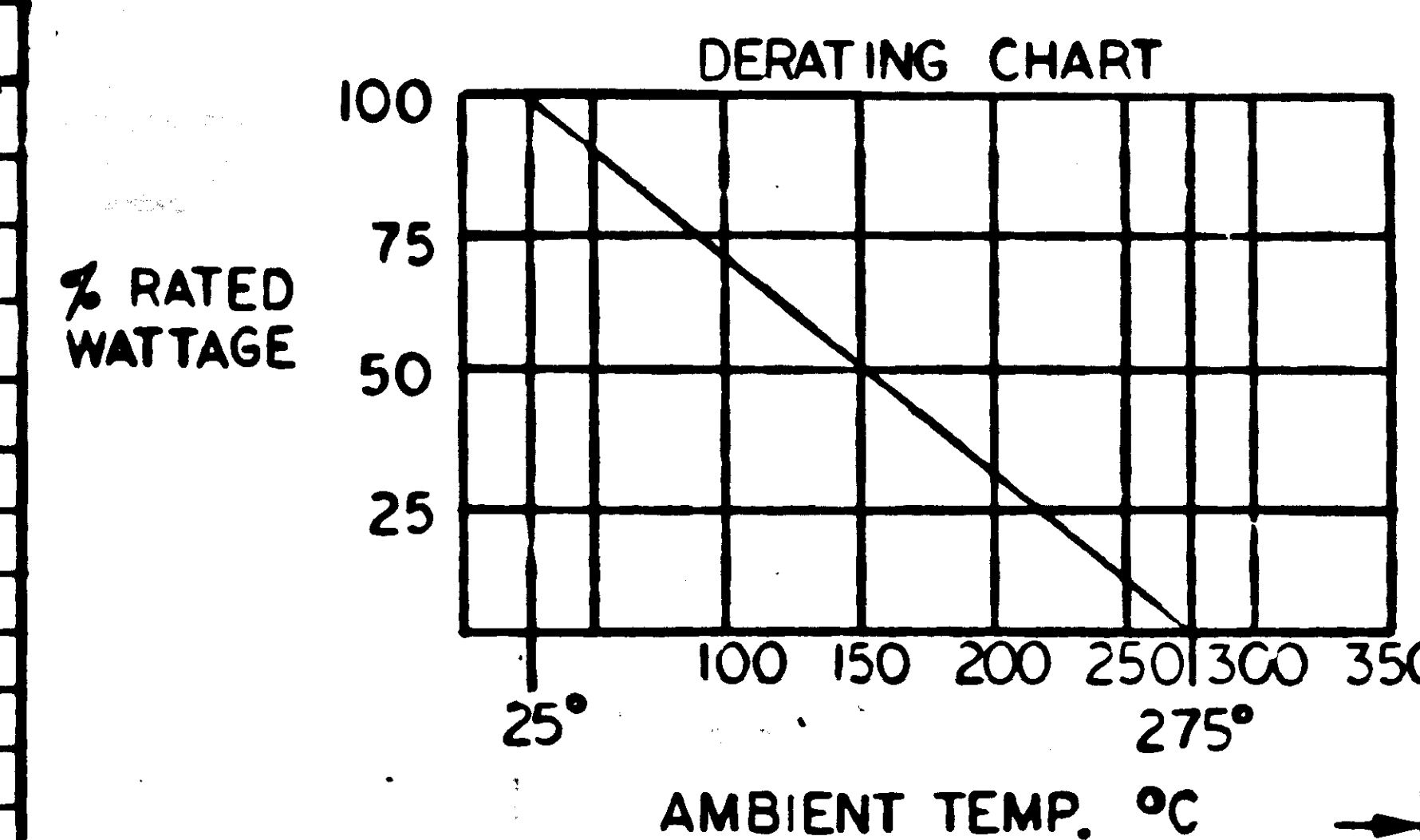
PROCURE ONLY FROM APPROVED SOURCES LISTED IN ND 1002034 FOR THIS DRAWING.

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	40	16
19	780	41	18
20	790	42	20
21	800	43	22
22	1000	44	24

PART NO.	RES OHMS NOMINAL
61	0.5
62	2150
63	30.1
64	4120
65	33
66	4700
67	3000
68	31.6
69	51
70	0.01
71	30
72	31
73	26
74	28
75	32

W 1090101

SYM	DESCRIPTION	DATE	APPROVAL
	INITIAL RELEASE CLASS A PER TDRR 02599	8/14/63	WK.
A	REVISED PER TDRR 03702	8/20/63	WK.
B	REVISED PER TDRR 06773	8/10/64	RPK WK.
C	REVISED PER TDRR 07104	8/21/64	RPK WK.
D	REVISED PER TDRR 07314	8/21/64	RPK WK.
E	REVISED PER TDRR 10810	7/1/64	WK.
F	REVISED PER TDRR 10925	7/21/64	WK.
G	REVISED PER TDRR 11136	7/24/64	WK.
H	REVISED PER TDRR 14481	12/1/64	WK.
J	REVISED PER TDRR 16595	2/24/65	WK.
K	REVISED PER TDRR 25364	1/25/66	WK.
L	REVISED PER TDRR 25942	3/15/66	WK.
M	REVISED PER TDRR 27115	3/23/66	WK.



QTY REQD		PART OR IDENTIFYING NO.		NOMENCLATURE OR DESCRIPTION		FIND NO.	
LIST OF MATERIALS							
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS 02139 DWC NO. 24 JUL 63 DRAWN 24 JUL 63 CHECKED 27 JUL 63 APPROVAL 8/13/63				MANNED SPACECRAFT CENTER HOUSTON, TEXAS RESISTOR, FIXED, WIREWOUND 1 WATT SPECIFICATION CONTROL DRAWING			
NEXT ASSY		USED ON		NASA APPROVAL 10/14/63		NASA DRAWING NO. 1010604	
APPLICATION		HEAT TREATMENT NONE		MIT APPROVAL 11/27/63		CODE IDENT NO. C	
		FINAL FINISH NONE				SCALE NONE	
						SHEET 1 OF 1	