

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 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 CONFERRING ANY RIGHTS OR PERMISSION TO MANUFACTURE, USE OR SELL ANY PATENTED INVENTION THAT MAY IN ANY WAY BE RELATED THERETO.

C 68E0101		REVISIONS	
SYM	DESCRIPTION	DATE	APPROVAL
-			
A	REVISED PER TDRR 00864	17 Feb 63	W.R.
B	REVISED PER TDRR 01109	14 Apr 63	W.R.
C	REVISED PER TDRR 01341	27 Feb 63	W.R.

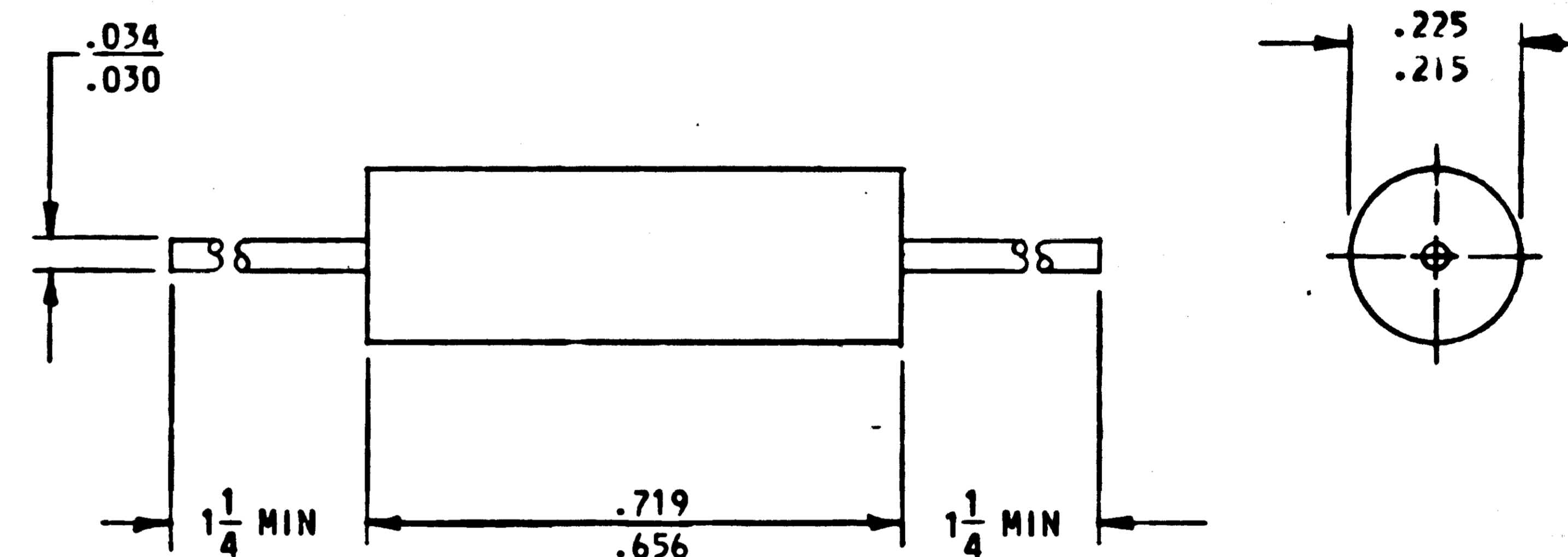
NOTES:

- GENERAL REQUIREMENTS:
 - UNITS SHALL MEET THE REQUIREMENTS OF SPECIFICATION MIL-R-26, CHARACTERISTIC G, FOR INSULATED TYPES; EXCEPT AS AND IN ADDITION TO THE REQUIREMENTS SPECIFIED HEREIN. MILITARY QUALIFICATION TESTING IS NOT REQUIRED.
- ELECTRICAL REQUIREMENTS:
 - POWER RATING: 3 WATTS.
 - RESISTANCE TOLERANCE: $\pm 1\%$.
 - TEMPERATURE COEFFICIENT: ± 20 PPM/ $^{\circ}$ C.
 - MAXIMUM RATED CONTINUOUS WORKING VOLTAGE: 150 VOLTS.
- CONSTRUCTION REQUIREMENTS:
 - RESISTANCE ELEMENT: RESISTANCE WIRE USED SHALL HAVE A MINIMUM DIAMETER OF 0.001 INCH.
 - HOUSING: METAL TUBING.
 - LEADS: NICKEL ALLOY PER NASA SPECIFICATION PS 1015400.
A CERTIFICATE OF COMPLIANCE OF LEAD MATERIAL SHALL ACCOMPANY EACH LOT SHIPPED. EACH LEAD SHALL BE CAPABLE OF WITHSTANDING TWO (2) BENDS UNDER A TWO (2) POUND VERTICAL PULL (LEAD 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.
 - MARKING: MARK UNITS PER MIL-STD-130 WITH MANUFACTURER'S NAME AND/OR SYMBOL, TYPE NUMBER, RESISTANCE VALUE, TOLERANCE, POWER RATING.

MARKING OF UNIT PACKAGES AND EXTERIOR SHIPPING CONTAINERS SHALL INCLUDE NASA DRAWING NUMBER AND REVISION LETTER.
- QUALIFICATION:
 - UNITS SHALL MEET THE REQUIREMENTS OF ND1002057.
- QUALITY ASSURANCE REQUIREMENTS:
 - SUPPLIERS SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN NASA SPECIFICATION ND 1015404, CLASS 2.
- TEST REQUIREMENTS:
 - BURN-IN TEST: THE MANUFACTURER SHALL BURN-IN ALL RESISTORS FOR 100 HOURS AT $+25^{\circ}$ C AT 3 WATTS. RESISTANCE CHANGE SHALL NOT BE GREATER THAN 0.5% AND SHALL NOT EXCEED THE INITIAL PURCHASE TOLERANCE.
- INTERPRET DRAWING

FOR INFORMATION ONLY

CLASS B RELEASE TDR No. 00497 DATE 3-6-63



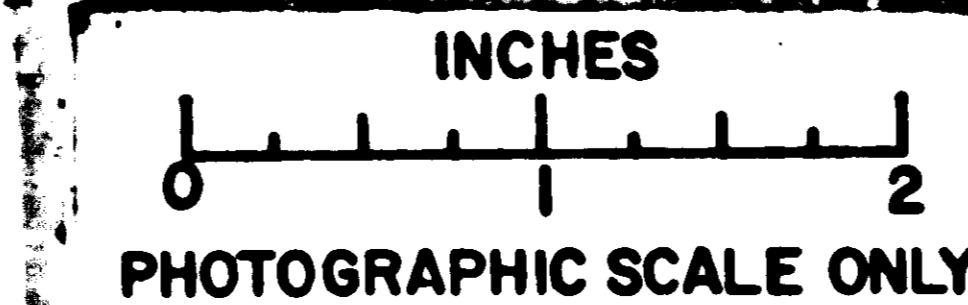
C	C
B	B
A	A
—	—
SHEET 1	SHEET 2
REVISION STATUS OF SHEETS	

PROCURE ONLY FROM APPROVED SOURCES LISTED ON ND1002034 FOR THIS DRAWING.

NEXT ASSY	USED ON
APPLICATION	

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

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>D. B...</i> DATE 31 DEC 62		RESISTOR, FIXED, WIREWOUND	
CHECKED <i>E. F. ...</i> 1-25-63		SPECIFICATION CONTROL DRAWING	
APPROVAL <i>[Signature]</i>		CODE IDENT NO.	NASA DRAWING NO.
NASA APPROVAL <i>[Signature]</i>		C	1010389
MIT APPROVAL <i>[Signature]</i>		SCALE NONE	WT SHEET 1 OF 2



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REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
-			
A	REVISED PER TDRR 00864	1/19/63	W.K.
B	REVISED PER TDRR 01109	1/19/63	W.K.
C	REVISED PER TDRR 01341	5/2/63	W.K.

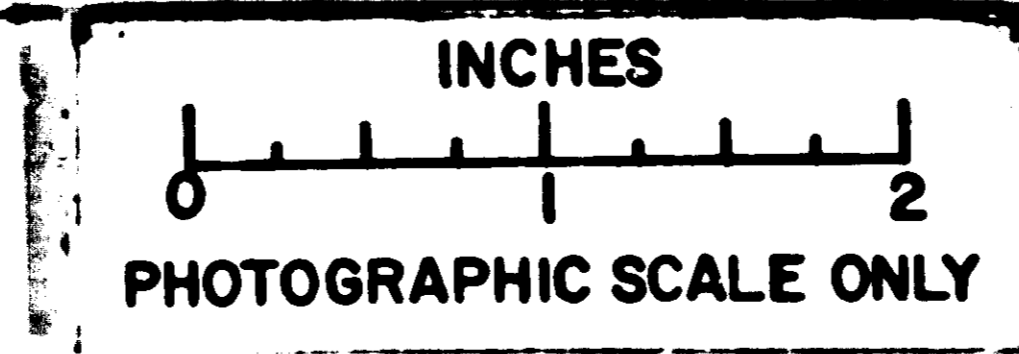
BASIC RESISTANCE OHMS	MULTIPLIER				
	10 ⁻¹	1	10	10 ²	10 ³
	NASA DASH NO.				
10		8	32	56	80
11		9	33	57	81
12		10	34	58	82
13		11	35	59	83
15		12	36	60	84
16		13	37	61	85
18		14	38	62	86
20		15	39	63	87
22		16	40	64	88
24		17	41	65	89
27		18	42	66	90
30		19	43	67	91
33		20	44	68	
36		21	45	69	
39		22	46	70	
43		23	47	71	
47		24	48	72	
51	1	25	49	73	
56	2	26	50	74	
62	3	27	51	75	
68	4	28	52	76	
75	5	29	53	77	
82	6	30	54	78	
91	7	31	55	79	

DASH NO. 92 =	43 OHMS
DASH NO. 93 =	600 OHMS
DASH NO. 94 =	1 OHM
95 =	2600 OHMS
96 =	2800 OHMS
97 =	4100 OHMS
98 =	4500 OHMS
99 =	5300 OHMS
100 =	5800 OHMS
101 =	6100 OHMS
102 =	6300 OHMS
103 =	6600 OHMS
104 =	6900 OHMS
105 =	7200 OHMS
106 =	7800 OHMS
107 =	2300 OHMS
108 =	3180 OHMS
109 =	3500 OHMS
110 =	4900 OHMS

FOR INFORMATION ONLY
 CLASS B RELEASE TDR No. 00477 DATE 3-6-63

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>Ray Wheeler</i> DATE <i>2/2/63</i>		RESISTOR, FIXED, WIREWOUND	
CHECKED <i>B.F. Barber</i> 1-25-63			
APPROVAL <i>[Signature]</i> 3/6/63		SPECIFICATION CONTROL DRAWING	
HEAT TREATMENT		CODE IDENT NO.	NASA DRAWING NO.
FINAL FINISH		C	1010389
APPLICATION		SCALE NONE	SHEET 2 OF 2

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES		
TOLERANCES ON		
FRACTIONS	DECIMALS	ANGLES
±	±	±
DO NOT SCALE THIS DRAWING		
MATERIAL		
HEAT TREATMENT		
NEXT ASSY	USED ON	
APPLICATION		



1010389