

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A DEFINITELY RELATED GOVERNMENT OPERATION, THE UNITED STATES GOVERNMENT THEREBY INCURS NO RESPONSIBILITY FOR ANY OBLIGATION WHATSOEVER, AND THE FACT THAT THE GOVERNMENT HAS FORWARDED, 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 THERE TO.

H 0929001

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
A	REVISED & REDRAWN PER TDRR 00287 UPGRADED TO CLASS A RELEASE	1/18/63	
B	REVISED PER TDRR 00401	2-7-63	WIK
C	CHANGE PER TDRR 02593	8/14/63	WIK
D	REVISED PER TDRR 04179	10/30/63	WIK
E	REVISED PER TDRR 06008		WIK
F	REVISED PER TDRR 06248	2-18-64	WIK
G	REVISED PER TDRR 07026	3/17/64	WIK
H	REVISED PER TDRR 16368	2/17/65	WIK

NOTES:

1. GENERAL REQUIREMENTS:

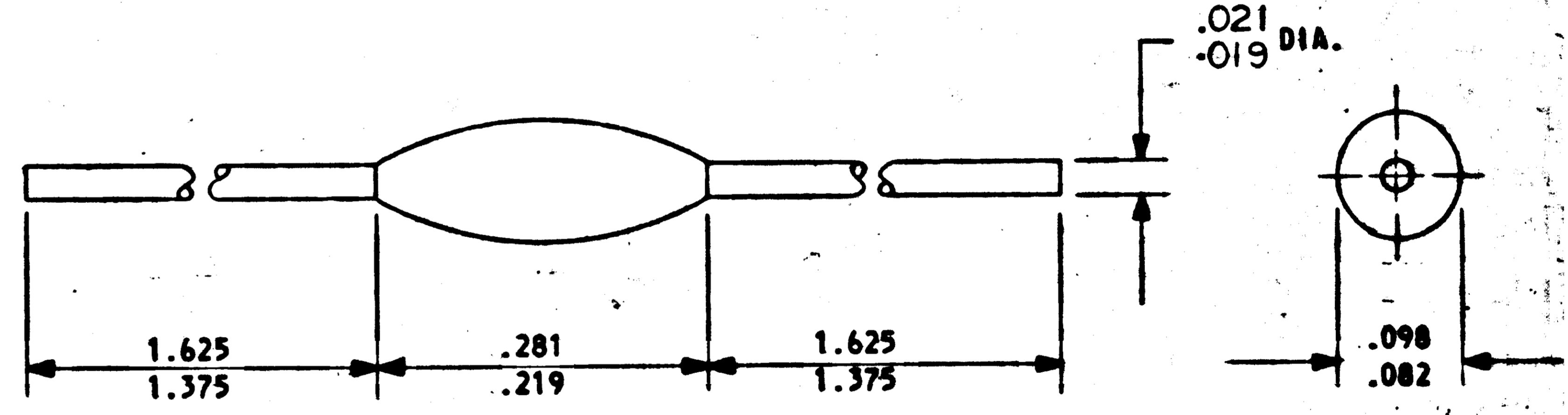
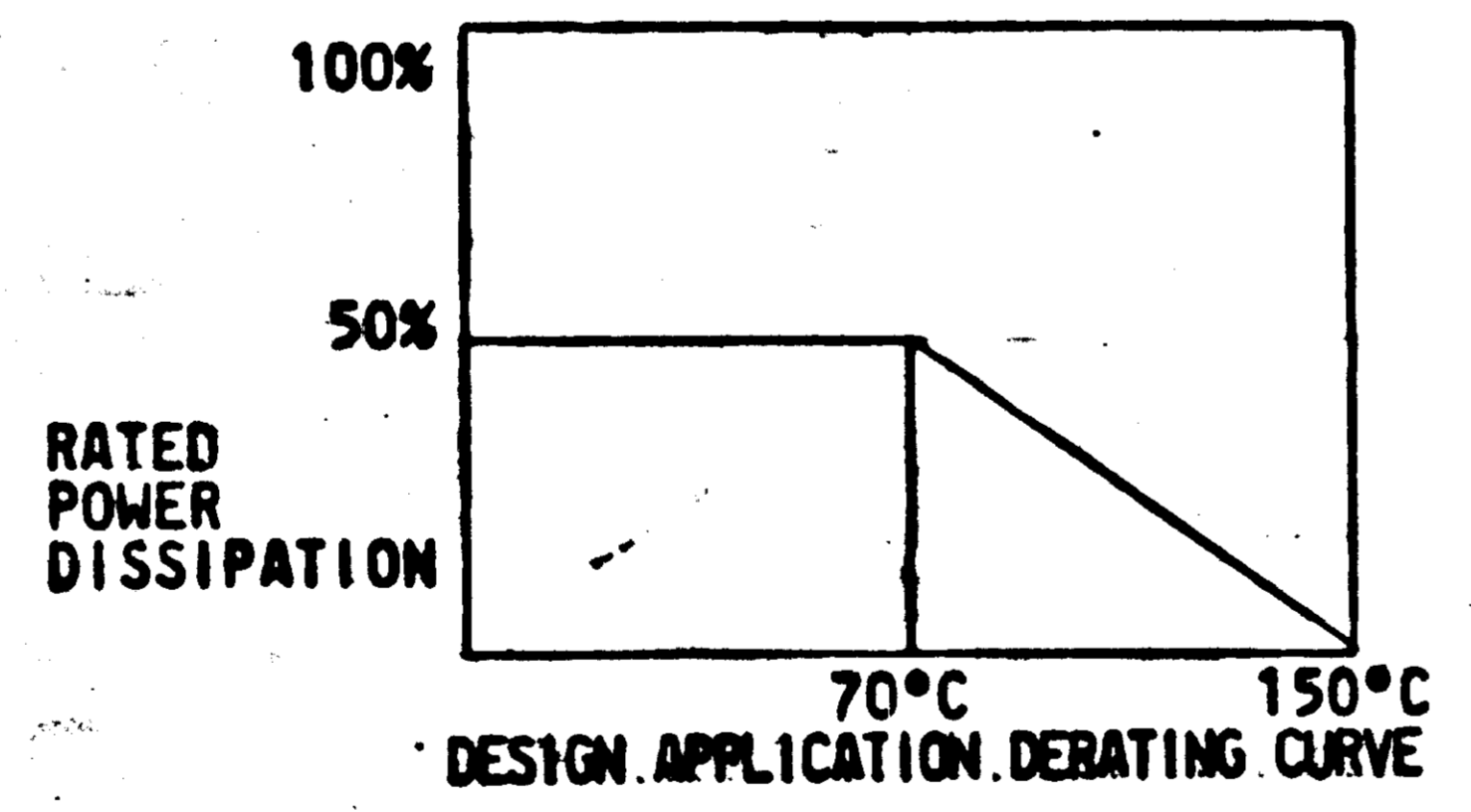
- A. UNITS SHALL MEET THE APPLICABLE REQUIREMENTS OF MIL-R-22684 FOR TYPE RL 07 WITH THE EXCEPTIONS AND ADDITIONS SPECIFIED HEREIN.
- B. EXCEPTIONS:
 - (1) UNITS SHALL HAVE WELDABLE NICKEL LEADS PER PS 1015400. LEADS SHALL ALSO BE GOLD FLASHED PER PS 1015400 UNLESS OTHERWISE SPECIFIED. A CERTIFICATE OF COMPLIANCE OF LEAD MATERIAL AND FINISH SHALL ACCOMPANY EACH LOT SHIPPED.
 - (2) INITIAL RESISTANCE SHALL BE PLUS OR MINUS 2% OF THE SPECIFIED VALUE.
 - (3) TEMPERATURE COEFFICIENT: $\pm 200 P.P.M/^{\circ}C$ MAX FROM $-55^{\circ}C$ TO $150^{\circ}C$.
 - (4) UNITS SHALL BE CAPABLE OF MEETING AN END OF LIFE TOLERANCE OF $\pm 5\%$ OF NOMINAL VALUE SPECIFIED AFTER 5000 HOURS WHEN ENERGIZED AS SHOWN IN DESIGN APPLICATION DERATING CURVE BELOW.
 - (5) MARKING: UNIT SHALL BE PERMANENTLY AND LEGIBLY MARKED PER ND1002019 WITH THE MANUFACTURER'S SYMBOL, TYPE DESIGNATION, NOMINAL RESISTANCE, VALUE AND TOLERANCE, LETTER G INDICATING $\pm 2\%$ RESISTANCE TOLERANCE, AND THE MANUFACTURER'S FOUR-DIGIT MANUFACTURING LOT NUMBER.

C. ADDITIONS:

- (1) THE SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN NASA DOCUMENT ND1015404 CLASSIFICATION.
- (2) BURN IN: 24 HOURS AT 150% OF RATED LOAD AT ROOM AMBIENT TEMPERATURE. THE FOLLOWING PARTS SHALL NOT BE SHIPPED:
 - A) ANY PART WHICH CHANGES MORE THAN THE MEAN CHANGE ± 2 SIGMA.
 - B) ANY PART WHICH CHANGES MORE THAN 0.75%.
 - C) ANY PART WHICH IS BEYOND PURCHASE TOLERANCE AT THE CONCLUSION OF THE TEST.

D. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.

RESISTANCE VALUE	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100
10																			
15																			
20																			
25																			
30																			
35																			
40																			
45																			
50																			
55																			
60																			
65																			
70																			
75																			
80																			
85																			
90																			
95																			
100																			



NOTES

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES	
TOLERANCES ON	
FRACTIONS DECIMALS ANGLES	
± ± ±	
DO NOT SCALE THIS DRAWING	
MATERIAL	SEE NOTES
HEAT TREATMENT	---
FINAL FINISH	---
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>Mahoney</i> DATE 1-17-63		RESISTOR, FIXED FILM INSULATED 1/4 WATT	
CHECKED <i>George</i> DATE 1-17-63			
APPROVAL <i>Edwards</i> 1-18-63		SPECIFICATION CONTROL DRAWING	
MATERIAL		CODE IDENT NO.	NASA DRAWING NO.
		C	1006750
NASA APPROVAL <i>Edwards</i> 1-23-63		SCALE	SHEET 1 OF 2
MIT APPROVAL <i>Edwards</i> 1-23-63		WT	

PURCHASE TO QUALIFICATION STATUS LIST ND1002034

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H 0929001

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
E	THIS SHEET ADDED PER TDRR 06008		<i>WPK</i>
H	REVISED PER TDRR 16368	2/17/65	<i>WPK</i>

BASIC RESISTANCE VALUE OHMS	MULTIPLIER			
	1	10	10 ²	10 ³
DASH NUMBER				
10		8	32	56
11		9	33	57
12		10	34	58
13		11	35	59
15		12	36	60
16		13	37	61
18		14	38	62
20		15	39	63
22		16	40	64
24		17	41	65
27		18	42	66
30		19	43	67
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
10.5		92	116	140
11.5		93	117	141
12.5		94	118	142
14		95	119	143
15.5		96	120	144
17		97	121	145
19		98	122	146
21		99	123	147
23		100	124	148
25.5		101	125	149

BASIC RESISTANCE VALUE OHMS	MULTIPLIER & DASH NO.			
	1	10	10 ²	10 ³
28.5		102	126	150
31.5		103	127	151
34.5		104	128	152
37.5		105	129	153
41		106	130	154
45		107	131	155
49		108	132	156
53.5	85	109	133	157
59	86	110	134	158
65	87	111	135	159
71.5	88	112	136	160
78.5	89	113	137	161
86.5	90	114	138	162
95.5	91	115	139	163
13.5		168	170	172
14.5		169	171	173

ⓔ THIS SHEET ADDED

NOTES

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON FRACTIONS DECIMALS ANGLES
± — ± — ± —
DO NOT SCALE THIS DRAWING MATERIAL
SEE NOTES
HEAT TREATMENT
FINAL FINISH
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>[Signature]</i> DATE <i>[Date]</i>		RESISTOR, FIXED FILM INSULATED 1/4 WATT	
CHECKED <i>[Signature]</i> DATE <i>[Date]</i>		SPECIFICATION CONTROL DRAWING	
APPROVAL <i>[Signature]</i>		CODE IDENT NO.	NASA DRAWING NO.
NASA APPROVAL <i>[Signature]</i>		SIZE	1006750
MIT APPROVAL <i>[Signature]</i>		SCALE	SHEET 2 OF 2