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H 1006750

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		WK
C	CHANGE PER TDRR 02593	8/14/63		WK
D	REVISED PER TDRR 04179	10/30/63	WK	
E	REVISED PER TDRR 06008		WK	
F	REVISED PER TDRR 06248	2-18-64	WK	
G	REVISED PER TDRR 07026	3/17/64		WK
H	REVISED PER TDRR 16368	2/17/65	WK	

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 COEFFECIENT:
   ± 200P.P.M/°C MAX FROM -55°C TO 150°C.

   (4) UNITS SHALL BE CAPABLE OF MEETING AN END OF LIFE TOLERANCE OF ± 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 ± 2% RESISTANCE TOLERANCE, AND THE MANUFACTURER'S FOUR-DIGIT MANUFACTURING LOT NUMBER.

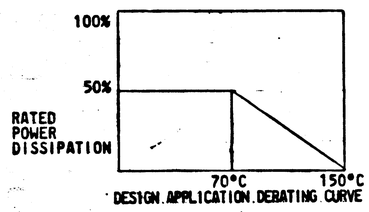
   C. ADDITIONS:

   (1) THE SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS CONTAINED IN NASA DOCUMENT ND1015404 CLASS IV.

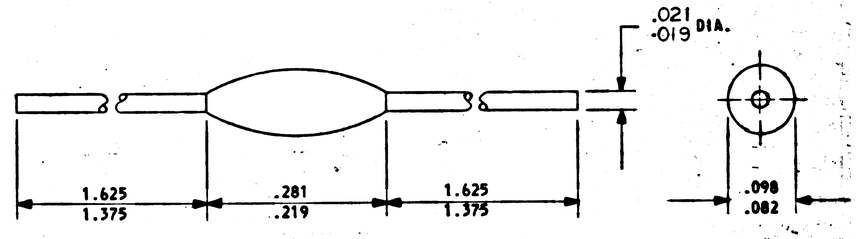
   (2) BURN IN: 24 HOURS AT 150% OF RATED LOAD AT ROOM AMBIENT TEMPERATURE. THE FOLLOWING PARTS SHALL NOT BE SHIPPED:

   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.



DESIGN APPLICATION DERATING CURVE



MASTER

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.
		LIST OF MATERIALS	

PURCHASE TO QUALIFICATION STATUS LIST
ND1002034

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT —
FINAL FINISH —

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN O'Mahoney DATE 1-17-63
CHECKED George Price 17 Jan 63
APPROVAL 1-18-63
APPROVAL
NASA APPROVAL 1-23-63
MIT APPROVAL 13 Jan 63

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RESISTOR, FIXED FILM INSULATED 1/4 WATT
SPECIFICATION CONTROL DRAWING

CODE IDENT NO.	SIZE	NASA DRAWING NO.
—	C	1006750
SCALE —	WT	SHEET 1 OF 2

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H 1006750

REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
E	THIS SHEET ADDED PER TDRR 06008		
H	REVISED PER TDRR 16368	2/17/65	WK

BASIC RESISTANCE VALUE OHMS	MULTIPLIER 1	10	10^2	10^3	10^4
	DASH NUMBER				
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	
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	164
11.5		93	117	141	165
12.5		94	118	142	166
14.		95	119	143	167
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	10^4
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	174
14.5		169	171	173	175

(E) THIS SHEET ADDED

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIND NO.

LIST OF MATERIALS

NEXT ASSY	USED ON
APPLICATION	

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES
TOLERANCES ON
FRACTIONS ± — DECIMALS ± — ANGLES ± —
DO NOT SCALE THIS DRAWING
MATERIAL SEE NOTES
HEAT TREATMENT —
FINAL FINISH —

MIT INSTRUMENTATION LAB
CAMBRIDGE, MASS.
DWG. NO. CONTRACT
DRAWN DATE
CHECKED 2-4-64
APPROVAL
APPROVAL 2/4/64
NASA APPROVAL 2/4/64
MIT APPROVAL 2/5/64

MANNED SPACECRAFT CENTER
HOUSTON, TEXAS

RESISTOR, FIXED FILM INSULATED 1/4 WATT

SPECIFICATION CONTROL DRAWING

CODE IDENT NO. —
SIZE C
NASA DRAWING NO. 1006750
SCALE —
WT
SHEET 2 OF 2

MASTER