

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 FORMULATED, 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 THERETO.

N 8879001

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
C	REPLACES REV B WITH CHANGES PER TDRR 01287	5/12/63	WR
D	REVISED PER TDRR 01557	12/20/63	AKB
E	REVISED PER TDRR 02619	8/14/63	WR
F	REVISED PER TDRR 03138	12/4/63	WR
G	REVISED PER TDRR 03998	12/20/63	WR
H	REVISED PER TDRR 05114	12/10/63	WR
J	REVISED PER TDRR 05371	12/27/63	WR
K	REVISED PER TDRR 16367	2/17/65	WR
L	REVISED PER TDRR 16586	4/1/65	WR
M	REVISED PER TDRR 18748	12/19/65	WR
N	REVISED PER TDRR 24691	12/24/65	WR

REQUIREMENTS:

1. GENERAL:

- A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED BY MIL-D-70327.
- B. UNITS SHALL MEET THE REQUIREMENTS OF MIL-R-93 WITH ANY ADDITIONS AND EXCEPTIONS AS NOTED HEREIN. UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION REQUIREMENTS OF ND 1002057.
- C. SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404 CLASS 2.
- D. MARKING: UNITS SHALL BE MARKED IN ACCORDANCE WITH ND1002019 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, AND LOT CODE.
- E. LEADS SHALL BE NICKEL IN ACCORDANCE WITH ND 1015400. A CERTIFICATE OF COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH SHIPMENT.

2. ACCEPTANCE AND INSPECTION:

- A. MECHANICAL DIMENSIONS PER DRAWING.
- B. ELECTRICAL:
 - (1) RESISTANCE SHALL BE AS SPECIFIED IN TABLE.
 - (2) RESISTANCE SHALL BE MEASURED 3/8 ± 1/64 INCH FROM THE RESISTOR BODY.
 - (3) RESISTANCE TOLERANCE: SEE TABLE

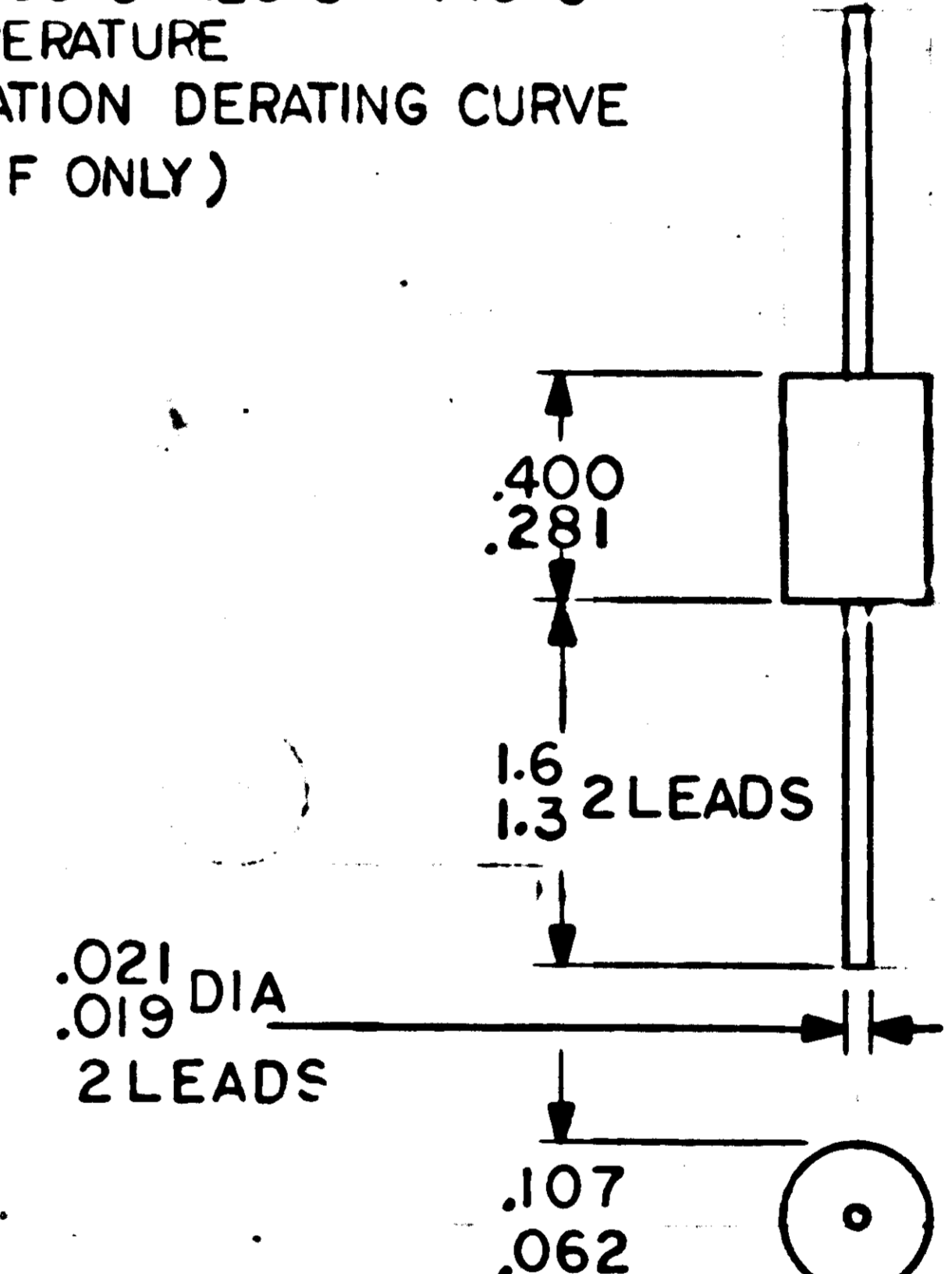
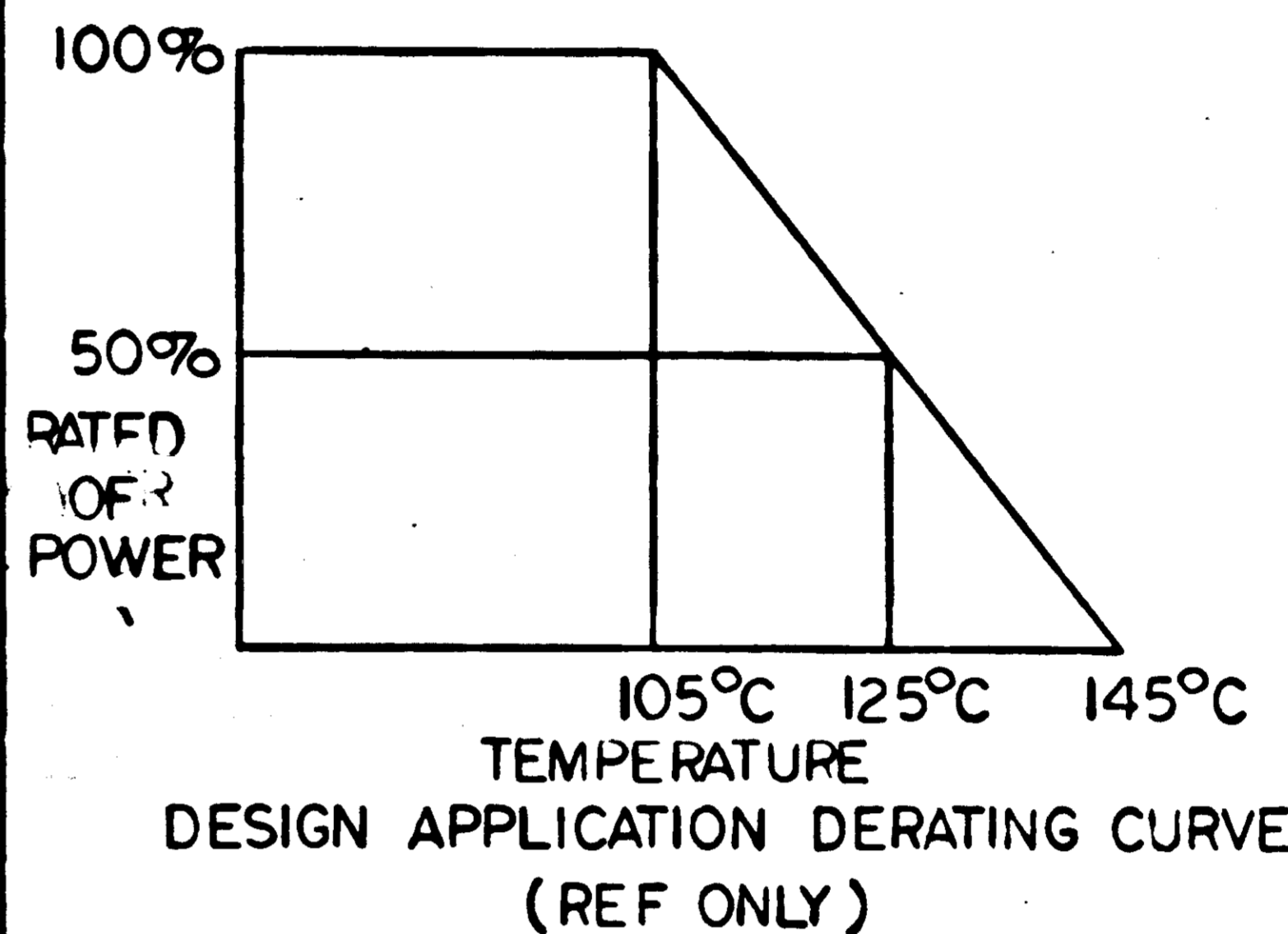
3. DESIGN REQUIREMENTS:

- A. POWER RATING: 1/4 WATT
- B. OPERATING TEMPERATURE RANGE: -55°C TO 145°C
- C. TEMPERATURE COEFFICIENT: 50 PPM/°C

4. SPECIAL CONDITIONING BY SUPPLIER:

- A. TEMPERATURE CYCLING
 - (1) 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.
- B. BURN IN:
 - (1) 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 ±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	INDUCTANCE MAX TOL	DASH NO.	RESIST. IN OHMS	INDUCT. MAX TOL
1	4.7	0.1	47	4.3	0.1
2	4.8	0.1	48	4.4	0.1
3	4.9	0.1	49	4.5	0.1
4	5.0	0.1	50	4.6	0.1
5	5.1	0.1	51	1.5	0.1
6	10	0.13	52	1.55	0.1
7	15	0.13	53	1.60	0.1
8	20	0.14	54	1.65	0.1
9	27	0.17	55	5.2	0.1
10	33	0.20	56	5.4	0.1
11	39	0.21	57	5.6	0.1
12	47	0.25	58	5.8	0.1
13	19.5	0.14	59	6.0	0.1
14	20.5	0.14	60	6.3	0.1
15	2.4	0.1	61	6.6	0.1
16	1.7	0.1	62	6.9	0.1
17	1.75	0.1	63	7.2	0.1
18	1.8	0.1	64	7.5	0.1
19	1.85	0.1	65	8.0	0.1
20	1.9	0.1	66	8.5	0.1
21	1.95	0.1	67	9.0	0.1
22	2.0	0.1	68	9.5	0.1
23	2.05	0.1	69	2.35	0.1
24	2.1	0.1	70	2.45	0.1
25	2.15	0.1	71	2.55	0.1
26	2.2	0.1	72	2.65	0.1
27	2.25	0.1	73	2.75	0.1
28	2.3	0.1			
29	2.5	0.1			
30	2.6	0.1			
31	2.7	0.1			
32	2.8	0.1			
33	2.9	0.1			
34	3.0	0.1			
35	3.1	0.1			
36	3.2	0.1			
37	3.3	0.1			
38	3.4	0.1			
39	3.5	0.1			
40	3.6	0.1			
41	3.7	0.1			
42	3.8	0.1			
43	3.9	0.1			
44	4.0	0.1			
45	4.1	0.1			
46	4.2	0.1			



© REPLACES REV B WITH CHANGES

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

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON FRACTIONS DECIMALS ANGLES ± ± ± DO NOT SCALE THIS DRAWING MATERIAL SEE NOTES HEAT TREATMENT NONE FINAL FINISH NONE		MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. CONTRACT DWS NO. DRAWN <i>R. Kase</i> DATE <i>20 May 63</i> CHECKED <i>George J. Hall</i> DATE <i>20 May 63</i> APPROVAL <i>E. D. ...</i> DATE <i>22 May 63</i> APPROVAL <i>Edwin C. Hall</i> DATE <i>22 May 63</i>		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
NEXT ASSY USED ON APPLICATION		NASA APPROVAL <i>W. J. ...</i> DATE <i>5/12/63</i> MIT APPROVAL <i>J. Nagel</i> DATE <i>12/16/63</i>		RESISTOR, FIXED, WIREWOUND SPECIFICATION CONTROL DRAWING	
		CODE IDENT NO. SIZE 80230 C		NASA DRAWING NO. 1006788	
		SCALE NONE WT		SHEET 1 OF 2	

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REVISIONS						
SYM	ZONE	DESCRIPTION	DR	CHK	DATE	APPROVED
M		THIS SHEET ADDED PER TDRR 18748	RB		6/12/65	WHL
N		REVISED PER TDRR 24691	WHL		12/24/65	WHL

DASH NO.	RES IN OHMS	TOL	INDUCT. H. MAX.	DASH NO.	RES IN OHMS	TOL	INDUCT. H. MAX.	DASH NO.	RES IN OHMS	TOL	INDUCT. H. MAX.	DASH NO.	RES IN OHMS	TOL	INDUCT. H. MAX.	DASH NO.	RES IN OHMS	TOL	INDUCT. H. MAX.	DASH NO.	RES IN OHMS	TOL	INDUCT. H. MAX.
74	1.00			106	1.47			138	2.15			170	3.16			202	4.64			234	6.81		
75	1.01			107	1.49			139	2.18			171	3.20			203	4.70			235	6.90		
76	1.02			108	1.50			140	2.21			172	3.24			204	4.75			236	6.98		
77	1.04			109	1.52			141	2.23			173	3.28			205	4.81			237	7.06		
78	1.05			110	1.54			142	2.26			174	3.32			206	4.87			238	7.15		
79	1.06			111	1.56			143	2.29			175	3.36			207	4.93			239	7.23		
80	1.07			112	1.58			144	2.32			176	3.40			208	4.99			240	7.32		
81	1.09			113	1.60			145	2.34			177	3.44			209	5.05			241	7.41		
82	1.10			114	1.62			146	2.37			178	3.48			210	5.11			242	7.50		
83	1.11			115	1.64			147	2.40			179	3.52			211	5.17			243	7.59		
84	1.13			116	1.65			148	2.43			180	3.57			212	5.23			244	7.68		
85	1.14		0.1	117	1.67		0.1	149	2.46		0.1	181	3.61		0.1	213	5.30		0.1	245	7.77		0.1
86	1.15		±0.5%	118	1.69		±0.5%	150	2.49		±0.5%	182	3.65		±0.5%	214	5.36		±0.5%	246	7.87		±0.5%
87	1.17			119	1.72			151	2.52			183	3.70			215	5.42			247	7.96		
88	1.18			120	1.74			152	2.55			184	3.74			216	5.49			248	8.06		
89	1.20			121	1.76			153	2.58			185	3.79			217	5.56			249	8.16		
90	1.21			122	1.78			154	2.61			186	3.83			218	5.62			250	8.25		
91	1.23			123	1.80			155	2.64			187	3.88			219	5.69			251	8.35		
92	1.24			124	1.82			156	2.67			188	3.92			220	5.76			252	8.45		
93	1.26			125	1.84			157	2.71			189	3.97			221	5.83			253	8.56		
94	1.27			126	1.87			158	2.74			190	4.02			222	5.90			254	8.66		
95	1.29			127	1.89			159	2.77			191	4.07			223	5.97			255	8.76		
96	1.30			128	1.91			160	2.80			192	4.12			224	6.04			256	8.87		
97	1.32			129	1.93			161	2.84			193	4.17			225	6.12			257	8.98		
98	1.33			130	1.96			162	2.87			194	4.22			226	6.19			258	9.09		
99	1.35			131	1.98			163	2.91			195	4.27			227	6.26			259	9.20		
100	1.37			132	2.00			164	2.94			196	4.32			228	6.34			260	9.31		
101	1.38			133	2.03			165	2.98			197	4.37			229	6.42			261	9.42		
102	1.40			134	2.05			166	3.01			198	4.42			230	6.49			262	9.53		
103	1.42			135	2.08			167	3.05			199	4.48			231	6.57			263	9.65		
104	1.43			136	2.10			168	3.09			200	4.53			232	6.65			264	9.76		
105	1.45			137	2.13			169	3.12			201	4.59			233	6.73			265	9.88		

Ⓜ THIS SHEET ADDED

QTY REQD	PART OR IDENTIFYING NO.	MATERIAL OR NOTES	NOMENCLATURE OR DESCRIPTION	FIND NO.
			LIST OF MATERIALS	
	MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
	DRAWN <i>Jerry Reed</i> 12/14/65 CHECKED <i>A. Mars</i> 6-14-66		RESISTOR, FIXED, WIRE WOUND SPECIFICATION CONTROL DRAWING	
	APPROVED <i>Edna C. Hall</i> 12/14/65			
	APPROVED MIT <i>W. Kupper</i> 4/13/63	CODE IDENT NO. 80230	SIZE C	DRAWING NO. 1006788
	APPROVED MSC <i>R. C. Hall</i> 4/13/63	SCALE NONE	SHEET 2 OF 2	

	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES CAPACITOR VALUES ARE IN μ f RESISTOR VALUES ARE IN OHMS TOLERANCES ON FRACTIONS DECIMALS ANGLES ± — ± — ± — DO NOT SCALE THIS DRAWING
	MATERIAL
	SEE NOTES (SHT 1)
NEXT ASSY	USED ON
APPLICATION	

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