DESCRIPTION INITIAL RELEASE CLASS A PER TDRR /2606 REVISED PER TDRR 18242 REVISED PER TDRR 20339 REQUIREMENTS: 1. GENERAL: A. UNITS SHALL MEET THE APPLICABLE REQUIREMENTS OF MIL-R-10509. STYLE RN60, CHARACTERISTIC B, TOLERANCE F, EX-CEPT AS SPECIFIED HEREIN. B. UNITS SHALL BE CAPABLE OF MEETING THE QUALIFICATION RE-QUIREMENTS SPECIFIED IN ND 1002057 UNLESS MODIFIED OR AMENDED BY THE DESIGN REQUIREMENTS SECTION OF THIS DRAWING. C. THE SUPPLIER SHALL CONFORM TO THE QUALITY ASSURANCE PRO-VISIONS SPECIFIED IN ND 1015404, CLASS 2. D. INTERPRET DRAWING SYMBOLS, ABBREVIATIONS, AND REFERENCE DESIGNATIONS IN ACCORDANCE WITH GOVERNMENT STANDARDS PRESCRIBED IN MIL-D-70327. E. UNIT PACKAGING AND PACKING SHALL BE IN ACCORDANCE WITH ND 1002129. 2. INSPECTION AND ACCEPTANCE: A. ELECTRICAL REQUIREMENTS: (1) RESISTANCE VALUE: PER TABLE (2) RESISTANCE TOLERANCE: PER TABLE ± 1% B. MECHANICAL REQUIREMENTS: (1) LEAD MATERIAL SHALL BE NICKEL ALLOY PER NASA DOCUMENT PS 1015400. A CERTIFICATE OF COMPLIANCE WITH THIS REQUIREMENT SHALL ACCOMPANY EACH SHIPMENT. (2) UNIT MARKING: THE MANUFACTURER'S NAME OR SYMBOL, THE NASA DRAWING NUMBER, DASH NUMBER (IF ANY), REVISION

3. DESIGN REQUIREMENTS:

A. PER THE REQUIREMENTS OF MIL-R-10509 AS MODIFIED BY THIS DRAWING.

BER MAY APPEAR ON THE PART OR PACKAGE.

B. POWER RATING: 1/8 WATT AT +70°C; DERATING LINEAR TO +150°C

C. MAX CONTINUOUS WORKING VOLTAGE: 250 VOLTS

D TEMPERATURE COEFFICIENT: \*500PPM/°C (-55°C TO +150°C) FOR VALUES THRU 4,530,000 $\Omega$ .  $\frac{1}{6}$ 625PPM/°C (-55°C TO +150°C) FOR VALUES 4,640,000 $\Omega$  THRU 10,000,000 $\Omega$ .

LETTER, SHALL BE PERMANENTLY AND LEGIBLY MARKED ON THE

PART PER MIL-STD-130. MANUFACTURER'S PART OR TYPE NUM-

E. DIELECTRIC WITHSTANDING VOLTAGE: 750 VOLTS RMS AT ATMOSPHERIC PRESSURE.

4. SPECIAL CONDITIONING BY SUPPLIER:

(3) DIMENSIONS PER FIGURE

A. BURN-IN: THE UNITS SHALL BE BURNED IN FOR 100 HOURS AT +70°C AND RATED POWER. THE RESISTANCE CHANGE SHALL NOT EXCEED .5%. THE UNITS SHALL NOT EXCEED THE INITIAL TOLERANCE BEFORE OR AFTER BURN-IN.

LIST OF MATERIALS MIT UNLESS OTHERWISE SPECIFIED MANNED SPACECRAFT CENTER INSTRUMENTATION LAB DIMENSIONS ARE IN INCHES HOUSTON, TEXAS Contract NAS 9-497 TOLERANCES ON ANGLES DRAWN Bender DATE FRACTIONS RESISTOR, FIXED CHECKED Ed Foster 18 Aug 6 CARBON FILM APPROVAL Q. B. Test 15 Acat 6) DO NOT SCALE THIS DRAWING MATERIAL SPECIFICATION CONTROL DRAWING SEE REQUIREMENTS NASA APPROVAL WY OF Phine CODE IDENT NO. SIZE 80230 C NASA DRAWING NO. HEAT TREATMENT **NEXT ASSY** USED ON FINAL FINISH NONE SHEET 1 OF 2 APPLICATION

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

PART OR

IDENTIFYING NO.

NOMENCLATURE OR

DESCRIPTION

DATE APPROVAL

MOTICE — 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 NOR ANY OBLIGATION WHATSOEVER: AND THE FACT THAT THE GOVERNMENT MAY HAVE FOOMULATED, 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.

DASH	RESISTANCE	DASH	RESISTANCE	DASH	RESISTANCE		RESISTANCE	DASH	RESISTANCE
NO.	OHMS	NO.	OHMS	NO.	OHMS	NO.	OHMS	NO.	249000
1 1	511,000	42	1,370,000	83	3,650,000	124	9,760,000	165 166	255000
2	523,000	43	1,400,000	84	3,740,000	125	10,000,000	167	261000
3	536,000	44	1,630,000	85	3,830,000	126	6,320,000		
4	549,000	45	1,470,000	86	3,920,000	127	100,000 102,000		267 274
5	562,000	46	1,500,000	87	4,020,000	128 129	102,000	170	280
6	576,000	47	1,540,000	88	4,120,000				
7	590,000	48	1,580,000	89	4,220,000	130	107 110		287 294
8	604,000	49	1,620,000	90	4,320,000	132	113	173	301
9	619,000	50	1,650,000	91	4,420,000				
10	634,000	51	1,690,000	92	4,530,000		115		309
11	649,000	52	1,740,000	93	4,640,000	175	118	17/	316
12	665,000	53	1,780,000	94	4,750,000	135	121	176	324
13	681,000	54	1,820,000	95	4,870,000		124 127		332 340
14	698,000	55	1,870,000	96	4,990,000	138	130	179	348
15	715,000	56	1,910,000	97	5,110,000				
16	732,000	57	1,960,000	98	5,230,000		133		357
17	750,000	58	2,000,000	99	5,360,000	1.41	137	103	365
18	768,000	59	2,050,000	100	5,490,000	141	140	182	374
19	787,000	60	2,100,000	101	5,620,000		143		383
20	806,000	61	2,150,000	102	5,760,000	100	147	105	392
21	825,000	62	2,210,000	103	5,900,000	144	150	185	402
22	845,000	63	2,260,000	104	6,040,000	İ	154		412
23	866,000	64	2,320,000	105	6,190,000	147	158 162	188	422 432
24	887,000	65	2,370,000	106	6,340,000		.02	1.00	
25	909,000	66	2,430,000	107	6,490,000		165		442
26	931,000	67	2,450,000	108	6,650,000	450	169	1	453
27	953,000	68	2,550,000	109	6,810,000	150	174	191	464
28	976,000	69	2,610,000	110	6,980,000		178		475
29	1,000,000	70	2,670,000	111	7,150,000		182		487
30	1,020,000	71	2,740,060	112	7,320,000	153	187	194	499
31	1,050,000	72	2,800,000	113	7,500,000		191		
32	1,070,000	73	2,870,000	114	7,680,000		196		
33	1,100,000	74	2,940,000	115	7,870,000	156	200		
34	1,130,000	75	3,010,000	116	8,060,000		205 .		
35	1,150,000	76	3,090,000	117	8,250,000		210		
36	1,180,000	77	3,160,000	118	8,450,000	159	215	Ц	
37	1,210,000	78	3,240,000	119	8,660,000		221		
38	1,240,000	79	3,320,000	120	8,870,000		226	1	
39	1,270,000	80	3,400,000	121	9,090,000	162	232		
40	1,300,000	81	3,480,000	122	9,310,000		237		
41	1,330,000	82	3,570,000	123	9,530,000	164	243		

REVISIONS DATE APPROVAL DESCRIPTION INITIAL RELEASE CLASS A PER TDRR 12606 REVISED PER TDRR 18242 REVISED PER TDRR 20339

THE COMPLETE PART NUMBER SHALL BE THIS DRAWING NUMBER PLUS THE APPLICABLE DASH NUMBER, AND REVISION LETTER.

			QTY REQD	PART OR IDENTIFYING NO.			NOMENCLATURE OR FIND DESCRIPTION NO.	
			LIST OF MATERIALS					
·		UNLESS OTHERWISE SPECIFIED  DIMENSIONS ARE IN INCHES  TOLERANCES ON	MIT INSTRUMENTATION LAB CAMBRIDGE, MASS. DWG. NO. Contract NAS 9-497					
		FRACTIONS DECIMALS ANGLES  ± ± ±  DO NOT SCALE THIS DRAWING  MATERIAL	DRAWI CHECK APPRO					
		HEAT TREATMENT	NASA	APPROVAL W Jakine 9-15-64	CODE IDENT NO.	SIZE	NASA DRAWING NO.	
NEXT ASSY	USED ON	FINAL FINISH			100200	<b>6</b>	1010768	
APPLIC	ATION		MIT APPROVAL & Dagel 9/15/67		SCALE	WT	SHEET 2 OF 2	
3			2	<b>y</b>			1	