

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 NOR 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 CONVEYING OR 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.

7 1006793

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B	REPLACES REVA WITH CHANGES AND UPGRADED TO CLASS A RELEASE PER TDRR 1635	4/19/63	REP
C	CHANGES PER TDRR 02616	8/14/63	WIK
D	REVISED PER TDRR 02814	8/28/63	DM
E	REVISED PER TDRR 04490	10-24-63	WIK
F	REVISED PER TDRR 04538	11-13-63	WIK
G	REVISED PER TDRR 11502	8/18/64	WIK
H	REVISED PER TDRR 14478	12/1/64	WIK
J	REVISED PER TDRR 26885	3/15/66	WIK
K	REVISED PER TDRR 32611	1/20/67	REP SC
L	REVISED PER TDRR 33443	7 APR 67	WIK

REQUIREMENTS:

1. GENERAL:

- A. INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
- B. UNITS SHALL MEET THE REQUIREMENTS OF MIL-C-11272, OPERATING TEMPERATURE C, TOLERANCE G, EXCEPT AS AND IN ADDITION TO THE REQUIREMENTS SPECIFIED HEREIN.
- C. SUPPLIERS SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404, CLASS 2.
- D. UNITS SHALL MEET THE QUALIFICATION REQUIREMENTS OF ND 1002045.
- E. MARKING: UNITS SHALL BE MARKED WITH THE NASA DRAWING NUMBER, DASH NUMBER, REVISION LETTER AND THE MANUFACTURER'S NAME OR SYMBOL PER MIL-STD-130 CAPACITANCE VALUE, TOLERANCE AND THE MANUFACTURER'S PART NUMBER MAY APPEAR ON THE PART OR PACKAGE. PACKAGING SHALL BE MARKED IN ACCORDANCE WITH MIL-STD-129 WITH THE MANUFACTURER'S NAME, LOT OR SERIAL NUMBER, DATE OF MANUFACTURE OR CODING, NASA DRAWING NUMBER AND REVISION LETTER.

2. ACCEPTANCE AND INSPECTION:

- A. LEAD MATERIAL SHALL BE GOLD-PLATED DUMET PER THE FOLLOWING REQUIREMENTS:
 - (1) CORE COMPOSITION:
 - Ni - 45.25% TO 46.75%
 - C - 0.10% MAX.
 - Mn - 0.35% - 1.25%
 - Si - 0.30% MAX.
 - S - 0.020% MAX.
 - P - 0.020% MAX.
 - RESIDUALS - 1.50 MAX.
 - Fe - BALANCE
 - (2) CLADDING:
 - 99.92% COPPER, OXYGEN FREE
 - 18-25% BY WEIGHT
 - (3) PLATING:
 - ELECTROPLATED 24 KARAT GOLD,
 - 50 MICROINCHES MINIMUM

B. CAPACITANCE, WORKING VOLTAGE AND TOLERANCE: PER TABLE II.

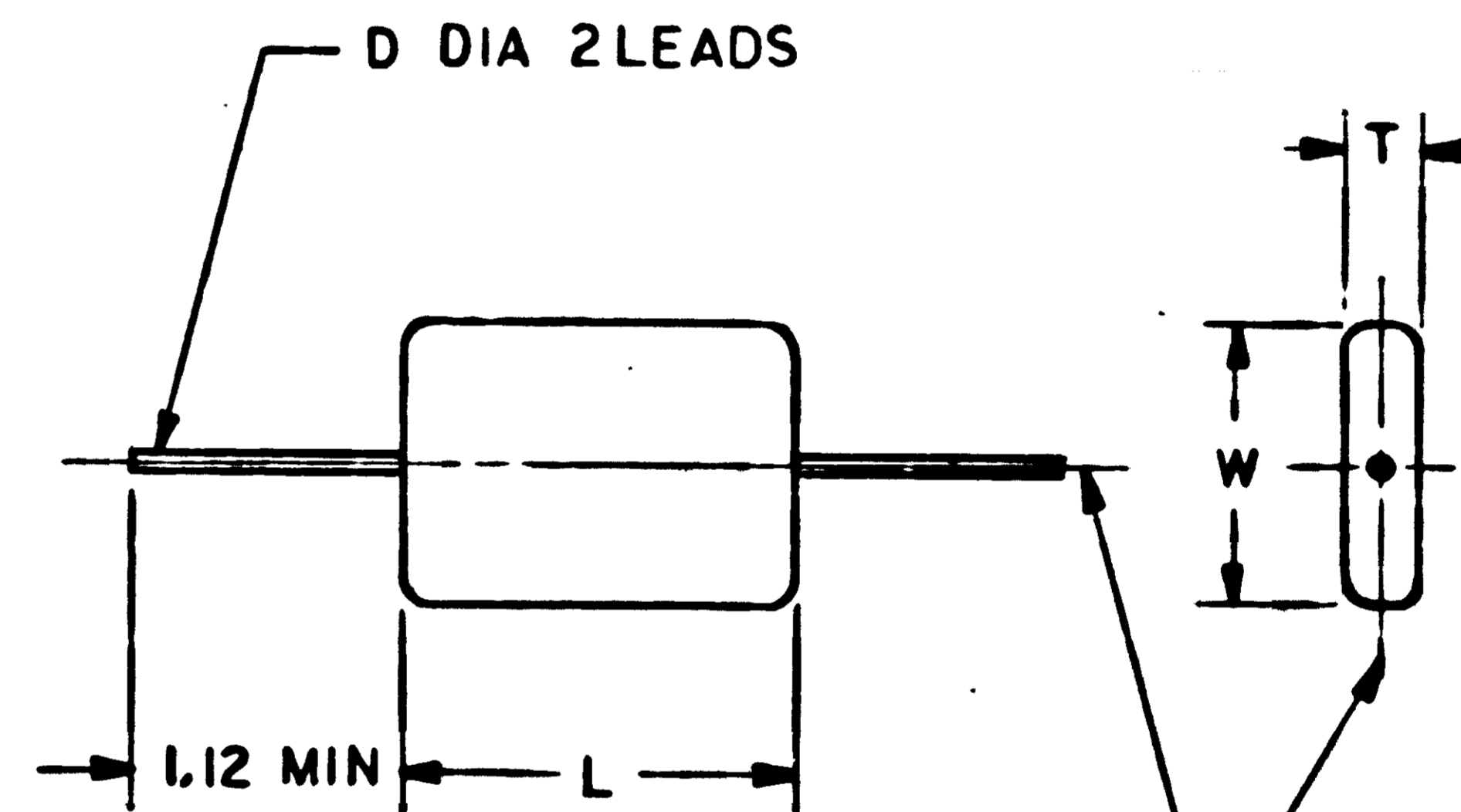
C. DIMENSIONS: PER TABLE I & SKETCH

3. SPECIAL CONDITIONING (BY SUPPLIER):

- A. BURN-IN: UNITS SHALL BE SUBJECTED TO 1500 VDC FOR 50 HOURS AT 25°C ± 3°C. AFTER THIS CONDITIONING, ALL UNITS SHALL BE WITHIN TOLERANCE WHEN MEASURED FOR CAPACITANCE, SHALL HAVE A DISSIPATION FACTOR LESS THAN 0.001, AND SHALL HAVE INSULATION RESISTANCE GREATER THAN 1 X 10¹¹ OHMS.

TABLE I

SIZE	L	W	T	D DIA.
A	.796 .672	.467 .375	.186 .094	.026 .024
B	.828 .703	.828 .672	.186 .094	.026 .024
C	.391 .297	.203 .141	.109 .047	.021 .019
D	.516 .422	.297 .234	.156 .063	.021 .019



ⓑ REPLACES REV A WITH CHANGES

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

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>H. P. ...</i> DATE 2/21/63		CAPACITOR, FIXED, GLASS DIELECTRIC	
CHECKED <i>H. P. ...</i> 13 JUNE 63		SPECIFICATION CONTROL DRAWING	
APPROVAL <i>[Signature]</i> 6/19/63		NASA DRAWING NO. 1006793	
APPROVAL <i>[Signature]</i> 19 JUNE 63		CODE IDENT NO. 80230	SIZE C
NASA APPROVAL <i>[Signature]</i> 4/19/63		SCALE NONE	WT
MIT APPROVAL <i>[Signature]</i> 4/19/63		SHEET 1 OF 2	

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1006793

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
C	THIS SHEET ADDED PER TDRR 02616	8/14/63	WIK
G	REVISED PER TDRR 11502	8/19/63	WIK
H	REVISED PER TDRR 14478	12/1/64	WIK
J	REVISED PER TDRR 26885	3/15/66	WIK
K	REVISED PER TDRR 32611	1/20/67	REP SC
L	REVISION STATUS CHANGED	7 APR 67	RN DW

TABLE II

NASA DASH NO.	CAPACITANCE (pf) ±2%	WORKING VOLTAGE DC	SIZE
-1	560	500	A
-2	620	↑	↑
-3	680	↑	↑
-4	750	↑	↑
-5	820	↑	↑
-6	910	↑	↑
-7	1000	↑	↑
-8	1100	↑	↑
-9	1200	↑	↑
-10	1300	↑	↑
-11	1500	↑	↑
-12	1600	↑	↑
-13	1800	↑	↑
-14	2000	↑	↑
-15	2200	↑	↑
-16	2400	↑	↑
-17	2700	↑	↑
-18	3000	↑	↑
-19	3300	500	↑
-20	3600	300	↑
-21	3900	↑	↑
-22	4300	↑	↑
-23	4700	↑	↑
-24	5100	300	A
-25	3600	500	B
-26	3900	↑	↑
-27	4300	↑	↑
-28	4700	↑	↑
-29	5100	↑	↑
-30	5600	↑	↑
-31	6200	500	↑
-32	6800	300	↑
-33	7500	↑	↑
-34	8200	↑	↑
-35	9100	↑	↑
-36	10,000	300	B
-37	10*	500	C
-38	11*	↑	↑
-39	12*	↑	↑
-40	13	↑	↑
-41	15	↑	↑
-42	16	↑	↑
-43	18	↑	↑
-44	20	500	C
-45	22	↑	↑

TABLE II (CONT)

NASA DASH NO.	CAPACITANCE (pf) ±2%	WORKING VOLTAGE DC	SIZE
-46	24	500	C
-47	27	↑	↑
-48	30	↑	↑
-49	33	↑	↑
-50	36	↑	↑
-51	39	↑	↑
-52	43	↑	↑
-53	47	↑	↑
-54	51	↑	↑
-55	56	↑	↑
-56	62	↑	↑
-57	68	↑	↑
-58	75	↑	↑
-59	82	↑	↑
-60	91	↑	↑
-61	100	↑	↑
-62	110	↑	↑
-63	120	↑	↑
-64	130	500	↑
-65	150	300	↑
-66	160	↑	↑
-67	180	↑	↑
-68	200	↑	↑
-69	220	↑	↑
-70	240	300	C
-71	220	500	D
-72	240	↑	↑
-73	270	↑	↑
-74	300	↑	↑
-75	330	↑	↑
-76	360	↑	↑
-77	390	↑	↑
-78	430	↑	↑
-79	470	500	↑
-80	510	300	↑
-81	560	↑	↑
-82	620	↑	↑
-83	680	↑	↑
-84	750	↑	↑
-85	820	↑	↑
-86	910	↑	↑
-87	1000	↑	↑
-88	1100	↑	↑
-89	1200	500	D
-90	880	300	↑

NASA DASH NO.	CAPACITANCE (pf) ±.25PF	WORKING VOLTAGE DC	SIZE
-91	0.5	500	C
-92	1.5	↑	↑
-93	2.2	↑	↑
-94	3.0	↑	↑
-95	3.9	↑	↑
-96	4.7	↑	↑
-97	5.6	↑	↑
-98	6.8	↑	↑
-99	7.5	↑	↑
-100	8.2	↑	↑
-101	9.1	500	C

© THIS SHEET ADDED

*THESE UNITS HAVE TOLERANCE OF ±0.25 pf

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>R. Kane</i> DATE 8-14-63		CAPACITOR, FIXED, GLASS DIELECTRIC SPECIFICATION CONTROL DRAWING	
CHECKED <i>A. Martin</i> 8-14-63		NASA DRAWING NO. 1006793	
APPROVAL <i>AG</i> for G.MAYO 8/14/63		CODE IDENT NO.	SIZE
APPROVAL <i>Edgar C. Hill</i> 8/14/63		80230	C
NASA APPROVAL <i>WJ R. Rhine</i> 8-14-63		SCALE NONE	WT
MIT APPROVAL <i>WJ R. Rhine</i> 8/14/63		SHEET 2 OF 2	
NEXT ASSY	USED ON	APPLICATION	

1006793

D
C
B
A

D
C
B
A

4

3

2

1