

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 AN ENDORSEMENT, 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.

REQUIREMENTS:

1. GENERAL:

- INTERPRET DRAWING IN ACCORDANCE WITH STANDARDS PRESCRIBED IN MIL-D-70327.
- UNITS SHALL MEET THE REQUIREMENTS OF MIL-C-11272, OPERATING TEMPERATURE C, TOLERANCE G, EXCEPT AS AND IN ADDITION TO THE REQUIREMENTS SPECIFIED HEREIN.
- SUPPLIERS SHALL CONFORM TO THE QUALITY ASSURANCE PROVISIONS AS CONTAINED IN ND 1015404, CLASS 2.
- UNITS SHALL MEET THE QUALIFICATION REQUIREMENTS OF ND 1002045.
- 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:

- 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

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

C. DIMENSIONS: PER TABLE I & SKETCH

3. SPECIAL CONDITIONING (BY SUPPLIER):

- 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.

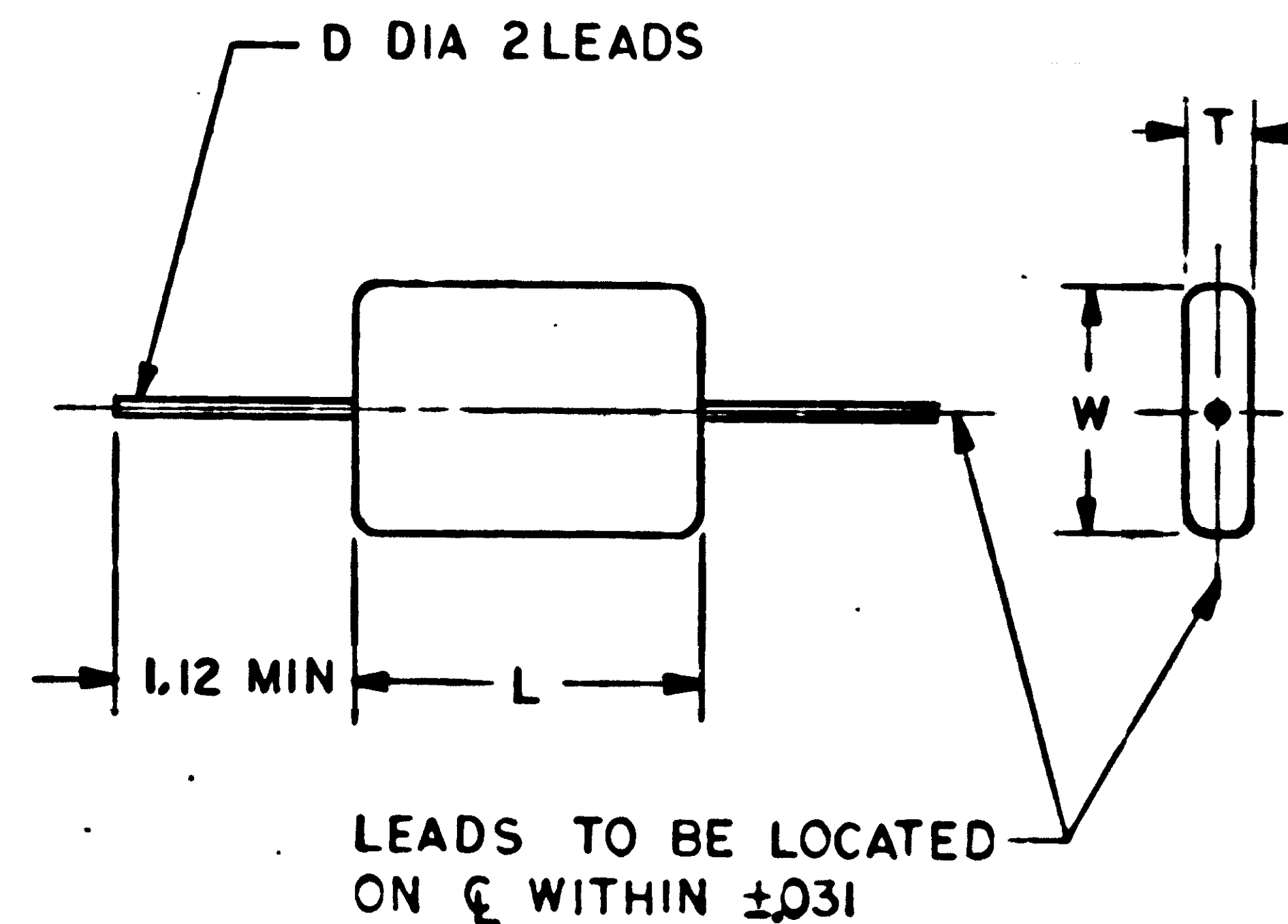
TABLE I

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

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

7 6629001

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	GR
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



ⓑ REPLACES REV A WITH CHANGES

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

MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		
DWG. NO.	CONTRACT	
DRAWN	DATE	2 JUNE 63
CHECKED	DATE	13 JUNE 63
APPROVAL	DATE	6/19/63
APPROVAL	DATE	6/19/63
NASA APPROVAL		
MIT APPROVAL		

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION		FINI NO.
LIST OF MATERIALS				
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS		
DWG. NO. _____ CONTRACT _____		CAPACITOR, FIXED, GLASS DIELECTRIC SPECIFICATION CONTROL DRAWING		
DRAWN <u>H. Pinner</u> <u>1/30</u> DATE <u>2 JUN 63</u>				
CHECKED <u>L. Maynard</u> <u>13 JUN 63</u>				
APPROVAL <u>L. Maynard</u> <u>6/13/63</u>				
APPROVAL <u>E. C. Hall</u> <u>15 JUN 63</u>				
NASA APPROVAL <u>W. H. Bush</u> <u>4/1/63</u>		CODE IDENT NO.	SIZE	NASA DRAWING NO.
MIT APPROVAL <u>L. E. Jones</u> <u>6/13/63</u>		80230	C	1006793
SCALE NONE		WT		SHEET 1 OF 2

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TABLE II

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

*THESE UNITS HAVE TOLERANCE OF ±0.25 pf

TABLE II (CONT)

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

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REVISIONS

SYM	DESCRIPTION	DATE	APPROVAL
C	THIS SHEET ADDED PER TDRR 02616	8/14/63	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	REVISION STATUS CHANGED	7 APR 67	RN DW

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

© THIS SHEET ADDED

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