

NOTICE - WHEN GOVERNMENT DRAWINGS, SPECIFICATIONS, OR OTHER DATA ARE USED FOR ANY PURPOSE OTHER THAN IN CONNECTION WITH A SPECIFICALLY 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.

#### 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 IN ACCORDANCE WITH ND 1002019. WITH THE NASA DRAWING NUMBER, DASH NUMBER, REVISION LETTER AND THE MANUFACTURER'S NAME OR SYMBOL. 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 DUE TO 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  $25^{\circ}\text{C} \pm 3^{\circ}\text{C}$ . 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  $1 \times 10^{11}$  OHMS.

TABLE I

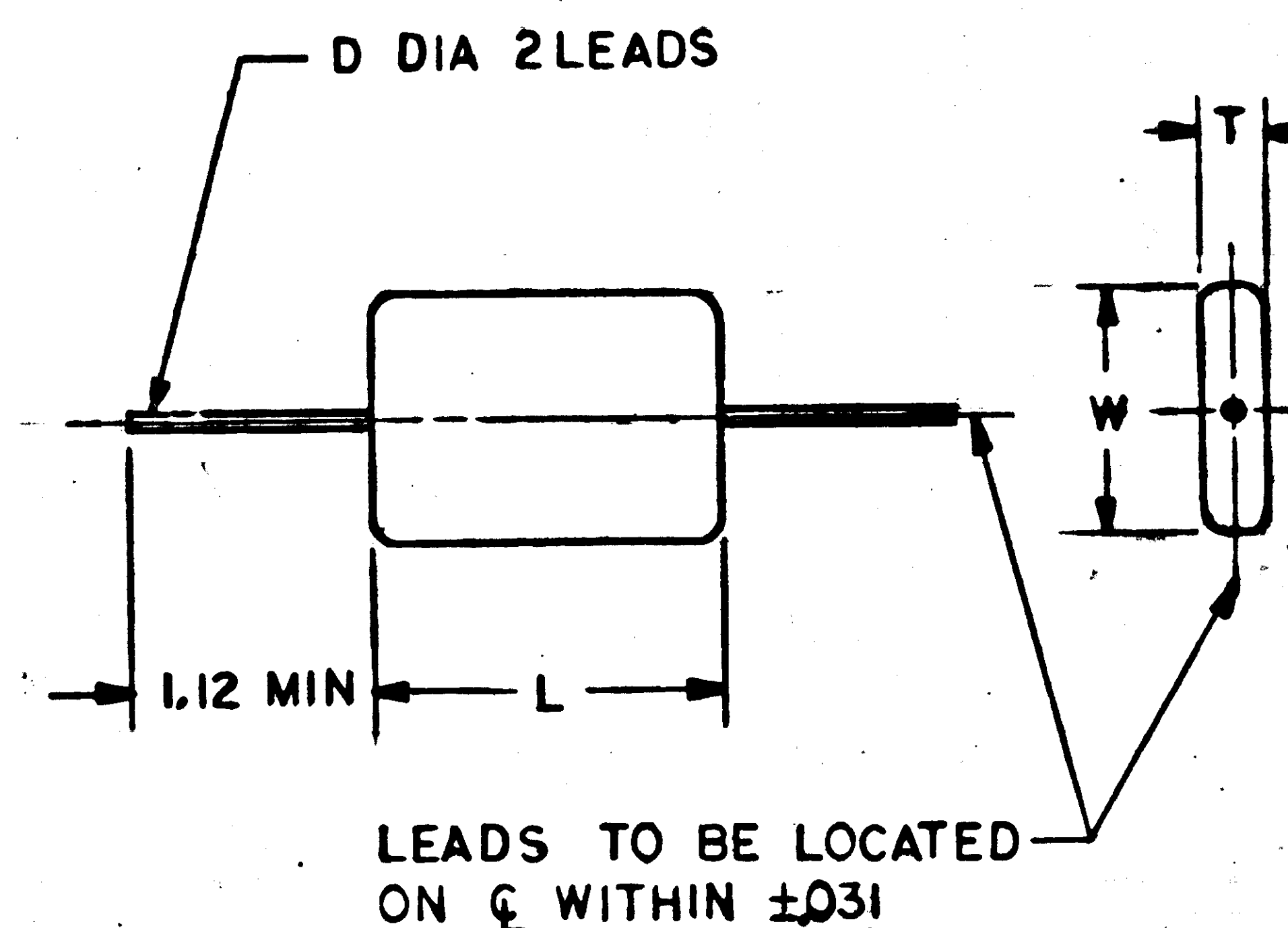
SIZE	L	W	T	D DIA.
A	.796	.467	.186	.026
	.672	.375	.094	.024
B	.828	.828	.186	.026
	.703	.672	.094	.024
C	.391	.203	.109	.021
	.297	.141	.047	.019
D	.516	.297	.156	.021
	.422	.234	.063	.019

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

MASTER

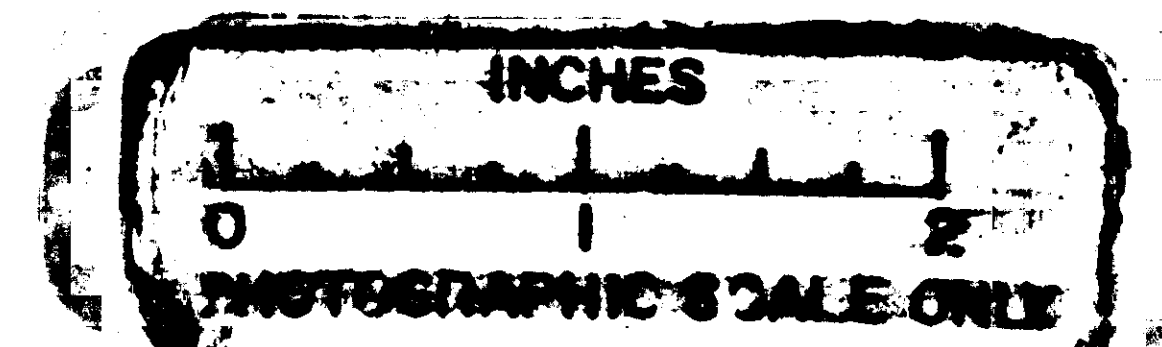
H 6629001

REVISIONS			
SYM	DESCRIPTION	DATE	APPROVAL
B	REPLACES REVA WITH CHANGES AND UPGRADED TO CLASS A RELEASE PER TDRR 1635	6/14/63	WRC
C	CHANGES PER TDRR 02616	8/14/63	WRC
D	REVISED PER TDRR 02814	8/28/63	DM
E	REVISED PER TDRR 04490	10-24-63	WRC
F	REVISED PER TDRR 04538	11-13-63	WRC
G	REVISED PER TDRR 11502	8/18/64	WRC
H	REVISED PER TDRR 14478	12/1/64	WRC



ⓑ REPLACES REV A WITH CHANGES

QTY REQD	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIN NO.
LIST OF MATERIALS			
MIT INSTRUMENTATION LAB CAMBRIDGE, MASS.		MANNED SPACECRAFT CENTER HOUSTON, TEXAS	
DRAWN <i>[Signature]</i> DATE 2/11/63 CHECKED <i>[Signature]</i> 12 JUNE 63 APPROVAL <i>[Signature]</i> 6/19/63 APPROVAL <i>[Signature]</i> 13 JUNE 63		CAPACITOR, FIXED, GLASS DIELECTRIC SPECIFICATION CONTROL DRAWING	
NASA APPROVAL <i>[Signature]</i> 4/1/65 MIT APPROVAL <i>[Signature]</i> 6/19/63		CODE IDENT NO. SIZE — C	NASA DRAWING NO. 1006793
SCALE NONE		WT	SHEET 1 OF 2





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TABLE II

NASA DASH NO.	CAPACITANCE (pf) $\pm 2\%$	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		
-45	22	500	C

\*THESE UNITS HAVE TOLERANCE OF  $\pm 0.25$  uf

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TABLE II (CONT)

NASA DASH NO.	CAPACITANCE (pf) $\pm 2\%$	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		
-65	150	500	
-66	160	300	
-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		
-80	510	500	
-81	560	300	
-82	620		
-83	680		
-84	750		
-85	820		
-86	910		
-87	1000		
-88	1100		
-89	1200		
-90	880	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

© THIS SHEET ADDED

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

QTY REQ	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	FIN 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			
APPROVAL <i>AG to G. MAYO</i> 8/14/63			
APPROVAL <i>Edgar C. Hall</i> 11 May 63			
NASA APPROVAL <i>WJ R. Rhine</i> 8-14-63		CODE IDENT NO.	NASA DRAWING NO.
MIT APPROVAL <i>WJ R. Rhine</i> 14 Aug 63		SIZE C	1006793
		SCALE NONE	WT
		SHEET 2 OF 2	

