MINISTRY OF SUPPLY (D.C.D)

VALVE ELECTRONIC CV1061

Specification MAP/CV1061/Issue 9 Dated 16.1.50 To be read in conjunction with K1001	SECURITY	
	Specification	Valve
	RESTRICTED	UNCLASSIFIED ←

→ Indicates a change

TYPE OF VALVE: Double Triode

CATHODE: Indirectly heated

ENVELOPE: Glass - unmetallised

PROTOTYPES: 4074A, DET19 RK34

MARKING

See K1001/4

PACKING

See K1005 ←

BASE

U.S. M 7 - ceramic

RATING		Note
Heater Voltage (V)	6.3	
Heater Current (A)	0.8	
Maximum Anode Voltage (V)	300	
Maximum Anode Dissipation per anode (W)	7.5	
Mutual Conductance (mA/V)	2.8	A
Anode Impedance (Ω)	5000	A
Amplification Factor	14	A
Maximum Operating Frequency (Mc/s)	125	

Pin	Electrode
1	Heater
2	No connection
3	Grid 1
4	Cathode
5	Grid 2
6	No connection
7	Heater
TC1	Anode 1
TC2	Anode 2

PLUG TOP CAPS

See K.1001/AI/D5.1. and drawing on Page 3.

CAPACITANCES (μμF)		
Ca-c+h	0.6	B
Cg-c+h	4.1	B
Cag	2.45	B
Ca_1-a_2	1.1	

DIMENSIONS

See K1001/AI/D1

Dimension		Min.	Max.
A	(mm)	-	130
B	(mm)	-	46
C	(mm)	-	35

NOTES

A Va = 250, Vg = -7

B These figures apply to each half of the valve

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TESTS

Tests to be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits Min.	Limits Max.	No. Tested	Notes
a	See K1001/AIII using adaptor type 41				CAPACITANCES (pF)				
	Links to H.P.		Links to L.P.	Links to E					
	TC1		3	1,2,4,5,6,7 8,9,10 TC2	1. $Ca_1 - g_1$ (pF)	2.1	2.8	6 per week	
	TC2		5	1,2,3,4,6,7 8,9,10 TC1	2. $Ca_2 - g_2$ (pF)	2.1	2.8		
	TC1		1,4,7	2,3,5,6,8,9 10, TC2	3. Ca_1 - c+h (pF)	0.4	0.8		
	TC2		1,4,7	2,3,5,6,8,9 10, TC1	4. Ca_2 - c+h (pF)	0.4	0.8		
	3		1,4,7	2,5,6,8,9,10 TC1, TC2,	5. Cg_1 - c+h (pF)	2.9	4.8		
	5		1,4,7	2,3,6,8,9,10 TC1, TC2,	6. Cg_2 - c+h (pF)	2.9	4.8		
	TC1		TC2	1,2,3,4,5,6 7,8,9,10.	7. $Ca_1 - a_2$ (pF)	0.75	1.40		
	Vh	Va	Vg	(Ia(mA)					
b	6.3	0	0	0	Ih (A)	0.7	0.9	100% or S	
c	6.3	250	-7	-	Ia (mA)	15	27	100%	1
d	6.3	250	-7	-	Reverse Ig (μA)	-	3	100%	1
e	6.3	250	-7	-	μ	12.5	16.0	100% or S	1
	Peak grid swing ±1.0V. max.								
f	6.3	250	-7		gm (mA/V)	2.4	3.45	100%	1
	Peak grid swing ±1.0V. max.								
g	6.3	250	-	0.1	1. - Vg (V)	-	50	100%	1
					2. Difference between readings for each half of valve. (V)	-	7.0	100%	1
h	6.3	Strapped 50V RMS at 50 c/s applied	-		Mean Ic (mA)	60	-	100%	1
j	Valves having Ic less than 80 mA. but not less than 60 mA. in test clause 'h' shall be checked by an approved method for effective shunt resistance, measured between the two control grids strapped and cathode with valve cold, at frequency of 20 Mc/s. Value of effective shunt resistance (ohms)					120,000	-	100%	
k	Valves shall be tested to ensure that no appreciable coupling exists between the grid of one section and the anode of the other. The nature of the test can be determined by the manufacturer							1%(29)	

Note 1: Tests c,d,e,f,g, and h shall be applied to each half of the valve.

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