

VALVE ELECTRONIC CV1961

GENERAL POST OFFICE: E-IN-C (S)

Specification: GPO/CV 1961/Issue 1 Dated: November, 1952. To be read in conjunction with K 1001	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>Unclassified</td><td>Unclassified</td></tr> </table>	SECURITY		<u>Specification</u>	<u>Valve</u>	Unclassified	Unclassified
SECURITY							
<u>Specification</u>	<u>Valve</u>						
Unclassified	Unclassified						

---> indicates a change

<u>TYPE OF VALVE:</u> Miniature HF Pentode sharp cutoff			<u>MARKING</u>		
<u>CATHODE:</u> Indirectly Heated			See K 1001/4		
<u>ENVELOPE:</u> Glass					
<u>PROTOTYPE</u> 12AU6					
<u>RATING</u>			<u>BASE</u>		
			B 7G		
Heater Voltage (V) 12.6			Connections		
Heater Current (A) 0.15					
Max. Anode Voltage (V) 330 A			PIN	Electrode	
Max. Screen Voltage (V) 165 A			1	G1	
Max. Anode Dissipation (W) 3.3 A			2	G3 and IS	
Max. Screen Dissipation (W) 0.7 A			3	H	
Mutual Conductance (mA/V) 5.2 B			4	H	
Max. Heater/Cathode Vltge. (V) 100 A			5	A	
			6	G2	
			7	C	
			<u>Dimensions</u>		
			see K 1001/AI/D4		
Capacitances (pF)			Dimensions	Min.	Max.
C ae 6.5 C			A mm	-	54.01
C ge 6.6 C			B mm	-	19.05
C ag .0035 C			L mm	-	47.75
			F mm	34.04	42.16
<u>NOTES:</u>					
A Absolute Maximum Values					
B Va = 250 Vg2 = 150 RC = 18ohms Ia = 10.8 mA					
C Measured with close fitting metal screen.					

To be performed in addition to those applicable in K1001

Test Conditions							Test	Limits		No. Tested	Note
								Min.	Max.		
a	See K1001/AIII						CAPACITANCES (pF)				
	Links to H.P.		Links to L.P.		Links to E.						
	1		5		2,3,4,6, 7,8,9,10 TC.1 TC.2		Cag		.0035	T.A.	
	1		2,3,4,6,7, 8,9.		5,10, TC.1 TC.2		Cge	4.4	6.6	6	
	5		2,3,4,6, 7,8,9.		1,10,TC.1 TC.2		Cae	3.5	6.5	per week	
b	Vh (V)	Va (V)	Vg2 (V)	Vg3 (V)	Rc (ohms)	Vg1 (V)				100% or S	
	12.6	0	0	0	-	0	Ih (A)	.138	.162		
c	12.6	250	150	0	68	-	Ia (mA)	8.0	13.5	100%	
d	12.6	250	150	0	68	-	Ig2 (mA)	2.6	6.0	100%	
e	12.6	250	150	0	-	-1.5	Reverse Ig1 (μA)	-	1.0	100%	
f	12.6	250	150	0	68	-	gm (mA/V)	4.15	6.25	100%	2
g	12.6	250	150	0	-	-7	Ia (μA)	-	500	100%	
h	12.6	20	20 max.	20	0	20	Emission (mA)	60	-	100%	

NOTE

1. Measured with a close fitting metal screen.

2. Cathode resistor to be by-passed by 1000 uF condenser.

3. Reference point for all potentials except heater and suppressor shall be the negative terminal of the cathode resistor.