

VALVE ELECTRONIC CV1710

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

(POVT 161)

Specification: G.P.O./CV 1710/Issue 1 Dated: 11.4.47 To be read in conjunction with K 1001	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>Restricted</td><td>Restricted</td></tr> </table>	SECURITY		Specification	Valve	Restricted	Restricted
SECURITY							
Specification	Valve						
Restricted	Restricted						

—→ indicates a change

TYPE OF VALVE: H.F. Pentode				MARKING			
CATHODE: Indirectly heated				See K1001/4			
ENVELOPE: Unmetallised glass				BASE			
PROTOTYPE 606				U.S. Medium 6-pin (U.S.M.6)			
RATING				Note	CONNEXIONS		
					Pin	Electrode	
Heater voltage	(V)	6.5	A A	1	Heater		
Nominal heater current	(A)	0.3		2	Anode		
Max. anode voltage	(V)	250.0		3	G2		
Max. screen voltage	(V)	100.0		4	G3		
Mutual conductance	(mA/V)	1.2		5	Cathode		
Anode impedance	(megohms)	1.5		6	Heater		
				T.C.	G1		
				TOP CAP			
				See K1001/A1/D5.1			
CAPACITANCES (pF)				DIMENSIONS			
				See K1001/A1/D1			
C _{ag}	(nominal)	0.007	Dimension		Min.	Max.	
C _{ee}	(nominal)	6.5	A (mm)		-	108	
C _{ge}	(nominal)	5.0	B (mm)		-	38	

NOTE

A. Measured with V_a = 250, V_{g2} = 100, V_{g3} = 0, and V_{g1} = -3

To be performed in addition to those applicable in K1001

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note
	Vh(V)	Va	Vg1	Vg2	Vg3		Min.	Max.		
(a)	6.3	-	-	-	-	Ih (A)	0.28	0.32	100%	1
(b)	6.3	250	-3	100	0	Reverse Igl (μ A)	-	0.5	100%	1
(c)	6.3	250	-3	100	0	Ia (mA)	1.5	2.7	100%	1
(d)	6.3	250	-8	100	0	Ia (μ A)	0.5	15.0	100%	1
(e)	6.3	250	2.5	100	0	gm (mA/V)	0.9	1.5	100%	1
			3.5							
(f)	6.3	250	-2.5	100	0	Ra (megohms)	1.3	-	100%	1
(g)	6.3	250	-3	100	0	Ig2 (mA)	0.3	1.0	100%	1

NOTE

1. Before commencing the tests, the valve shall be pre-heated for 10 minutes, the heater voltage being adjusted to 6.3 volts with all other electrodes disconnected.