VALVE ELECTRONIC CV1710

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

(POVT 161)

Specification: G.P.O./CV 1710/Issue 1	SECURITY	
Dated: 11.4.47	Specification	Valve
To be read in conjunction with K 1001	Restricted	Restricted

——> indicates a change

TYPE OF VALVE: H.F. Pentode
CATHODE: Indirectly heated
ENVELOPE: Unmetallised glass
PROTOTYPE 608

MARKING
See K1001/4

BASE
U.S. Medium 6-pin (U.S.M.6)

RATING

			Note
Heater voltage	(V)	6.3	
Nominal heater current	(A)	0.3	
Max. anode voltage	(V)	250.0	
Max.screen voltage	(V)	100.0	
Mutual conductance	(mA/V)	1.2	A
Anode impedance	(megohms)	1.5	A

CAPACITANCES (pF)

Cag	(nominal)	0.007
Cae	(nominal)	6.5
Cge	(nominal)	5.0

CONNEXIONS

Pin	Electrode
1	Heater
2	Anode
3	G2
4	G3
5	Cathode
6	Heater
T.C.	G1

TOP CAP
See K1001/A1/D5.1

DIMENSIONS
See K1001/A1/D1

Dimension	Min.	Max.
A (mm)	-	108
B (mm)	-	38

NOTE

A. Measured with Va = 250, Vg2 = 100, Vg3 = 0, and Vg1 = -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 Ig1 (μA)	-	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 (μA)	0.5	15.0	100%	1
(e)	6.3	250	2.5 / 3.5	100	0	gm (mA/V)	0.9	1.5	100%	1
(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.