

VALVE ELECTRONIC

CV 1670

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

(FOVT 100B)

Specification: **G.P.O./CV1670/ Issue 3**Dated: **4th January 1950**

To be read in conjunction with K 1001

SECURITYSpecificationValve**Restricted****Unclassified**

→ indicates a change

TYPE OF VALVE: **Triode**CATHODE: **Indirectly heated**ENVELOPE: **Glass**PROTOTYPE **4 D 1**MARKING

See K 1001/4

BASE

B7

RATINGNoteCONNEXIONSPinElectrode

Heater current	(A)	0.2	
Nominal heater voltage	(V)	13.0	
Max. anode voltage	(V)	250	
Amplification factor		40.0	A
Mutual conductance	(mA/V)	4.0	A
Anode impedance	(ohms)	10,000	A

1	Metallising (if present)
2	No connection
3	No connection
4	Heater
5	Heater
6	Cathode
7	Anode
T.G.	Grid

TOP CAP

See K 1001/A1/D5.1

DIMENSIONS

See K 1001/A1/D1

DimensionMin.Max.

A (mm)

-

127

B (mm)

-

45

NOTEA. Measured with $V_a = 100$, and $V_g = 0$

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
						Min.	Max.		
(a)	Test Voltage 250 Volts D.C. (Applied through 1 megohm)				<u>INSULATION (megohms)</u>				
					(i) Cathode to heater	-	-	1%	2
					(ii) Anode to cathode	100	-	1%	
					(iii) Grid to cathode	500	-	1%	
					(iv) Between any other two electrodes	500	-	1%	
					(v) Between any elec- trode and the metallic shell of the base.	500	-	1%	
	I h (A)	V a (V)	V g (V)	I g (μ A)					
(b)	0.2	50	0	-	Ageing (hours)	100	-	100%	3
(c)	0.2	-	-	-	Vh (V)	11.7	14.3	100%	1
(d)	0.2	50	Adjust	15	Ia (mA)	1.9	3.2	100%	1
(e)	0.2	50	Adjust	2	Ia (mA)	-	-	100%	1,4
(f)	0.2	50	- 3	-	Ia (μ A)	-	15.0	100%	1

NOTES

- Before commencing the tests the valve shall be pre-heated for 15 minutes with 0.2 amps flowing through the heater.
- To be performed in accordance with K 1001/5.3
- Ageing conditions shall be applied before all other tests
Ia may be allowed to reach 5 mA.
- The value obtained in test (e) shall not be less than 70% of the value obtained in test (d).