

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	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

→ indicates a change

<u>TYPE OF VALVE:</u> Triode <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Glass <u>PROTOTYPE</u> 4 D 1			<u>MARKING</u> See K 1001/4		
			<u>BASE</u> B7		
<u>RATING</u>			<u>CONNEXIONS</u>		
		Note	Pin	Electrode	
Heater current	(A)	0.2	1	Metallising (if present) No connection	
Nominal heater voltage	(V)	13.0	2		
Max. anode voltage	(V)	250	3	No connection	
Amplification factor		40.0	4		
Mutual conductance	(mA/V)	4.0	5	Heater	
Anode impedance	(ohms)	10,000	6		
			7	Anode	
			T.C.		
			<u>TOP CAP</u> See K 1001/A1/D5.1		
			<u>DIMENSIONS</u> See K 1001/A1/D1		
			Dimension	Min.	Max.
			A (mm)	-	127
			B (mm)	-	45

NOTE

A. 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).