

VALVE ELECTRONIC **CV 1674**GENERAL POST OFFICE: E-IN-C (S)

(POVT 106)

Specification: G.P.O./CV1674/Issue 1 Dated: 4.11.46 To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

→ indicates a change

<u>TYPE OF VALVE:</u> R.F. Pentode			<u>MARKING</u> See K1001/4		
<u>CATHODE:</u> Indirectly heated			<u>BASE</u> British 7-pin (B7)		
<u>ENVELOPE:</u> Metallised glass					
<u>PROTOTYPE</u> MS.Pen (mod)					
<u>RATING</u>		Note	<u>CONNEXIONS</u>		
			Pin	Electrode	
Heater voltage	(V)	4.0	1	Metallising	
Nominal heater current	(A)	1.0	2	G1	
Max. anode voltage	(V)	250	3	G3	
Max. screen voltage	(V)	250	4	Heater	
Max. anode dissipation	(W)	3.0	5	Heater	
Mutual conductance	(mA/V)	5.5	6	Cathode	
Anode impedance	(megohms)	1.0	7	G2	
			T.C.	Anode	
				<u>TOP CAP</u> See K1001/Al/D5.1	
				<u>DIMENSIONS</u> See K1001/Al/D1	
			Dimension	Min.	Max.
			A (mm)	-	127
			B (mm)	-	48
<u>NOTE</u>					
A. Measured with $V_a = 200$, $V_{g2} = 100$, and $V_{g1} = -2$.					

To be performed in addition to those applicable in K1001

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note	
							Min.	Max.			
(a)	See K1001/A111					<u>CAPACITANCES (pF)</u>					
	Links to H.F.	Links to L.F.	Links to E								
	TC1	2	1,3,4,5,6,7 8,9,10,TC2.				(i) Cag	0.005	0.015	6 per week	1
	TC1	1,3,4,5, 6,7	2,8,9,10, TC2				(ii) Cae	7.88	9.62	6 per week	1
	2	1,3,4,5, 6,7	8,9,10, TC1,TC2			(iii) Cge	12.15	14.85	6 per week	1	
(b)	Test Voltage 200 Volts D.C.					<u>INSULATION (megohms)</u>					
						(i) G1 to all other electrodes	500	-	1%	1	
						(ii) G2 ditto.	200	-	1%	1	
						(iii) Anode to all other electrodes	200	-	1%	1	
	Vh	Va	Vg1	Vg2	Vg3						
(c)	4.0	-	-	-	-	Ih (A)	0.9	1.1	100%	1	
(d)	4.0	200	-2	100	-	Ia (mA)	4.1	8.9	100%	1	
(e)	4.0	200	-12	100	-	Ia (mA)	-	0.1	100%	1	
(f)	4.0	200	-1	100	-	gm (mA/V)	4.0	-	100%	1	
(g)	4.0	200	-2	100	-	Reverse Ig (μA)	-	1.5	100%	1	
(h)	4.0	200	-20	100	-	Reverse Ig (μA)	-	0.3	100%	1	

NOTE

1. Before commencing the tests the valve shall be pre-heated for 10 minutes, the heater voltage being adjusted to 4 volts with all other electrodes disconnected.