

VALVE ELECTRONIC **CV 1677**

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

(POVT 109)

Specification: G.P.O./CV 1677/Issue 1 Dated: 15-7-46 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> Tetrode <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE</u> S4 VB		<u>MARKING</u> See K 1001/1		
<u>RATING</u>		Note	<u>BASE</u> British 5-pin (B5)	
Heater voltage (V) 4.0 Nominal heater current (A) 1.1 Max. anode voltage (V) 200 Max. screen voltage (V) 110 Amplification factor 750 Mutual conductance (mA/V) 2.5			Pin	Electrode
		A A	1 2 3 4 5 T.C	G2 G1 Heater Heater Cathode Anode
<u>TOP CAP</u> See K1001/A1/D5.1				
<u>DIMENSIONS</u> See K1001/A1/D1				
		Dimension	Min.	Max.
		A (mm) B (mm)	- -	147 51

This valve type is obsolete and this specification is for record purposes only

NOTE

Measured with $V_a = 200, V_{g2} = 110,$
and $V_{g1} = -1.5$

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
						Min.	Max.		
(a)	Anode to all other electrodes grouped				<u>CAPACITANCES (pF)</u>	6.0	8.0	6 per week	1
	Vh (v)	Va (v)	Vg 1 (v)	Vg 2 (v)					
(b)	4.0	-	-	-	Ih (A)	0.96	1.3	100%	1
(c)	4.0	200	-6	100	Ia (mA)	-	0.6	100%	1
(d)	4.0	200	-3	100	Ia (mA)	0.8	2.8	100%	1
(e)	4.0	200	0	100	Ia (mA)	6.6	11.5	100%	1
(f)	4.0	200	-1.5	100	Ig 2 (mA)	0.7	1.9	100%	1
(g)	4.5	200	-12	100	Ia (uA)	-	55.0	100%	1
(h)	4.5	200	-1.5	100	Reverse Ig (uA)	-	0.6	100%	1

NOTE

- Each valve will be pre-heated for 10 minutes before commencement of the tests by application of 4.5 volts to the heater and 40 volts to the screen grid.