

VALVE ELECTRONIC CV 1677

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

(POVT 109)

Specification: G.P.O./CV 1677/Issue 1	<u>SECURITY</u>	
Dated: 15-7-46	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

—————> indicates a change

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

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.