

VALVE ELECTRONIC **CV 1668**

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

(POVT 95)

Specification: G.P.O./CV1668/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> Triode <u>CATHODE:</u> Directly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> E420		<u>MARKING</u> See K1001/4			
<u>RATING</u>		Note .	<u>BASE</u> British 4-pin (B4)		
Filament current (A) 0.94 Nominal filament voltage (V) 6.0 Max. anode voltage (V) 400 Max. anode dissipation (W) 15.0 Amplification factor 19.0 Mutual conductance (mA/V) 1.25 Anode impedance (ohms) 15,200			<u>CONNEXIONS</u>		
<u>CAPACITANCES (pF)</u> Cag (max) 15.0 Cae (max) 15.0 Cge (max) 15.0			Pin	Electrode	
			1	Anode	
			2	Grid	
			3	Filament -	
			4	Filament +	
			<u>DIMENSIONS</u> See K1001/A1/D1		
			Dimension	Min.	Max.
			A (mm)	-	130
			B (mm)	-	61

This valve type is obsolete and this specification is for record purposes only

NOTE

A. Measured with $V_a = 300$ and $V_g = 0$

TESTS

To be performed in addition to those applicable in K1001

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
					Min.	Max.		
(a)	See K1001/AIII			<u>CAPACITANCES (pF)</u>				
	Links to H.P.	Links to L.P.	Links to E					
	1	2	3,4,5,6,7,8,9,10,TC1,TC2	(i) Cag	-	15.0	6 per week	
	1	3,4	2,5,6,7,8,9,10,TC1,TC2.	(ii) Cae	-	15.0	6 per week	
	2	3,4	1,5,6,7,8,9,10,TC1,TC2.	(iii) Cge	-	15.0	6 per week	
(b)	TEST VOLTAGE 500 Volts D.C.			<u>INSULATION (megohms)</u> Between any two electrodes	500	-	1%	
	If (A)	Va	Vg	Ia (mA)				
(c)	0.94	-	-	-	Vf (V)	5.5	6.5	100%
(d)	0.94	600	Adjust	50	Reverse Ig (μA)	-	1.5	100%
(e)	0.94	300	0	-	μ	16.0	22.0	100%
(f)	0.94	300	0	-	gm (mA/V)	1.0	1.5	100%
(g)	0.94	600	600	-	Vf required to produce emission current of 10 mA (V)	-	3.8	100%