

VALVE ELECTRONIC **CV 1695**

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

(FOVT 133)

Specification: G.P.O./CV1695/ Issue 2 Dated: 10th March, 1948. 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> Double-diode <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE</u> D D L 13		<u>MARKING</u> See K 1001/4													
<u>RATING</u>		<u>BASE</u> British 5-pin (B5)													
		<u>CONNEXIONS</u>													
		<u>DIMENSIONS</u> See K1001/A1/D1													
		<table border="1"> <thead> <tr> <th>Pin</th> <th>Electrode</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Diode 1</td> </tr> <tr> <td>2</td> <td>Diode 2</td> </tr> <tr> <td>3</td> <td>Heater</td> </tr> <tr> <td>4</td> <td>Heater</td> </tr> <tr> <td>5</td> <td>Cathode</td> </tr> </tbody> </table>		Pin	Electrode	1	Diode 1	2	Diode 2	3	Heater	4	Heater	5	Cathode
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To be performed in addition to those applicable in K1001

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note			
							Min.	Max.					
(a)	Test Voltage 500 Volts D.C.					<u>INSULATION (megohms)</u>							
						(i) Cathode to heater	-				-	1%	1, 2
						(ii) Diodes to cathode	100				-	1%	1
						(iii) Between any other two electrodes	500				-	1%	1
					(iv) Between any electrode and the metallic shell of the base.	500	-	1%	1				
	I h (A)	Id 1 (μ A)	Id 2 (μ A)	Vd 1 (V)	Vd 2 (V)								
(b)	0.2	-	-	-	-	Ageing (hours)	200	-	100%	3			
(c)	0.2	-	-	-	-	Vh (V)	11.7	14.3	100%	1			
(d)	0.2	1.0	-	Read	-	Vd 1 (V)	-0.3	-1.2	100%	1			
(e)	0.2	-	1.0	-	Read	Vd 2 (V)	-0.3	-1.2	100%	1			
(f)	0.2	Read	-	0	-	Id 1 change (mA)	3.5	-	100%	1			
				2									
(g)	0.2.	-	Read	0	-	Id 2 change (mA)	3.5	-	100%	1			
				2									

NOTES

1. Before commencing the test the valve shall be pre-heated for 15 minutes with 0.2 amps flowing through the heater.
2. To be performed in accordance with K1001/5.3
3. Ageing condition shall be applied with Diode 1 and Diode 2 strapped to Cathode, and shall be applied before all other tests.