

VALVE ELECTRONIC **CV1689**

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

(POVT 125)

Specification: G.P.O./CV1689/Issue 1 Date: 21.2.47 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> Indirectly heated <u>ENVELOPE:</u> Unmetallised glass <u>RECTOTYPE:</u> 3B/100B; PA1		<u>MARKING</u> See K1001/4												
<u>RATING</u>		<u>BASE</u> British 5-pin (B5)	<u>CONNEXIONS</u>											
				<table border="1"> <thead> <tr> <th>Pin</th> <th>Electrode</th> </tr> </thead> <tbody> <tr><td>1</td><td>Anode</td></tr> <tr><td>2</td><td>Grid</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	Anode	2	Grid	3	Heater	4	Heater
Pin	Electrode													
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2	Grid													
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5	Cathode													
		<u>DIMENSIONS</u> See K1001/A1/D1												
		<table border="1"> <thead> <tr> <th>Dimension</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A (mm)</td> <td>-</td> <td>125</td> </tr> <tr> <td>B (mm)</td> <td>-</td> <td>50</td> </tr> </tbody> </table>	Dimension	Min.	Max.	A (mm)	-	125	B (mm)	-	50			
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Heater voltage (V) 4.0 Nominal heater current (A) 1.1 Max. anode voltage (V) 200 Amplification factor 13.0 Mutual conductance (mA/V) 6.5 Anode impedance (ohms) 2,000	Note A A A													

This valve type is obsolete and this specification is for record purposes only

NOTE

A. Measured with $V_a = 200$ and $V_g = -10$

TESTS

To be performed in addition to those applicable in K1C01

	TEST CONDITIONS			TEST	LIMITS		No. Tested	Note
	Vh(V)	Va	Vg		Min.	Max.		
(a)	4.0	-	-	Ih (A)	1.0	1.2	100%	
(b)	4.0	200	-10	Reverse Ig (μ A)	-	3.0	100%	
(c)	4.0	200	-10	Ia (mA)	25.0	55.0	100%	
(d)	4.0	200	-10	μ	11.0	15.0	100%	
(e)	4.0	200	-10	gm (mA/V)	6.0	-	100%	
(f)	4.0	12V. A.C.(R.M.S)		Ie (mA)	150	-	100%	