

VALVE ELECTRONIC **CV 1611**

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

(POVT 11)

Specification: G.F.O./CV 1611/Issue 2 Dated: 13-5-48 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> Vacuum half-wave rectifier <u>CATHODE:</u> Directly heated tungsten filament <u>ENVELOPE:</u> Glass; double-ended <u>PROTOTYPE:</u> MR4		<u>MARKING</u> See K1001/4 Additional markings required (See Notes A & B) Serial No..... Filament Volts 12.5													
<u>RATING</u>		Note	<u>BASE</u> None												
Filament voltage (V)	12.5	C	<u>CONNEXIONS</u> The anode lead shall be brought out at the opposite end of the valve from the filament leads. All leads shall be suitably insulated and bound to the lips of the valve, and the loose ends shall be not less than 6 inches in length.												
Nominal filament current (A)	6.3														
→ Max. R.M.S. anode voltage (kV)	10.0														
Max. peak inverse voltage (kV)	30.0														
Max. anode dissipation (W)	150														
Anode impedance (ohms)	1500														
			<u>DIMENSIONS</u> See K 1001/A1/D3												
			<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Dimension</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A (mm)</td> <td>-</td> <td>265</td> </tr> <tr> <td>B (mm)</td> <td>-</td> <td>128</td> </tr> <tr> <td>C (mm)</td> <td>-</td> <td>56</td> </tr> </tbody> </table>	Dimension	Min.	Max.	A (mm)	-	265	B (mm)	-	128	C (mm)	-	56
Dimension	Min.	Max.													
A (mm)	-	265													
B (mm)	-	128													
C (mm)	-	56													
			<u>PACKING</u> See K 1001/7.3												
<u>NOTES</u>															
A. The serial numbers will be allotted by the Inspecting Officer. B. It is not essential that the additional markings shall appear within the frame. C. Measured with Va = 200.															

TESTS

To be performed in addition to those applicable in K 1001.

	<u>TEST CONDITIONS</u>		<u>TEST</u>	<u>LIMITS</u>		No. Tested	Note
	Vf (V)	Va (DC)		Min.	Max.		
(a)	12.5	-	If (A)	6.0	6.6	100%	
(b)	12.5	10 kV	D.C. output from 2 valves (mA)	160	-	100%	1

NOTE

1. This test shall be conducted in a bi-phase half-wave circuit and its duration shall be 30 minutes.

No blue glow, sparking, or flash-over shall occur.