

VALVE ELECTRONIC

CVI663

(POVT 87, AR 20)

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

Specification: G.P.O./CV 1663/Issue 1 Dated: 18.10.1945 To be read in conjunction with K 1001	<table border="1"> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>Restricted</td><td>Restricted</td></tr> </table>	SECURITY		<u>Specification</u>	<u>Valve</u>	Restricted	Restricted
SECURITY							
<u>Specification</u>	<u>Valve</u>						
Restricted	Restricted						

—————> indicates a change

<u>TYPE OF VALVE:</u> Triode			<u>MARKING</u>		
<u>CATHODE:</u> Directly heated			See K1001/4		
<u>ENVELOPE:</u> Unmetallised glass					
<u>PROTOTYPE</u> 4021B					
<u>RATING</u>			<u>BASE</u>		
			British 4-pin (B4)		
			<u>CONNEXIONS</u>		
			Pin	Electrode	
Filament current (A)		0.25	1	Anode	
Nominal filament voltage (V)		4.0	2	Grid	
Max. anode voltage (V)		160	3	Filament -	
Mutual conductance (mA/V)		3.0	4	Filament +	
Amplification factor		6			
Anode impedance (ohms)		2000			
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u>		
C _{ag} (max)		10.0	See K1001/A1/D1		
C _{ge} (max)		9.0	Dimensions	Min.	Max.
C _{ae} (max)		5.0	A (mm)	-	120
			B (mm)	-	50
<u>NOTES</u>					
A. Measured with V _a =130 and V _g =-8.					
B. The plane of the anode and grid pins shall lie within 25° of the plane of the filament.					

TESTS

To be performed in addition to those applicable in K1001

	TEST CONDITIONS			TEST	LIMITS		No. tested	Note
	See K1001/AIII				Min.	Max.		
(a)	Links to H.P.	Links to L.P.	Links to E.	<u>CAPACITANCES (pF)</u>				
	1	2	3,4,5,6,7,8,9,10, T.C.1, T.C.2.	(i) Cag	-	10.0	6 per week	
	2	3,4	1,5,6,7,8,9,10, T.C.1, T.C.2.	(ii) Cge	-	9.0	"	
	1	3,4	2,5,6,7,8,9,10, T.C.1, T.C.2.	(iii) Cae	-	5.0	"	
	If (A) D.C.	Va	Vg					
(b)	0.25	-	-	Vf	3.7	4.3	100%	
(c)	0.25	130	-8	Ia (mA)	-	35	100%	
(d)	0.25	130	-8	Ra "X" (ohms)	1600	2400	100%	
(e)	0.23	130	-8	Ra (ohms)	-	1.2 "X"	100%	1
(f)	0.25	130	-8	Reverse Ig (μA)	-	0.5	100%	
(g)	0.25	130	-30	Ia (mA)	-	0.2	100%	
(h)	0.25	130	-8	μ	5	7	100%	
<u>NOTES</u>								
1. Re-adjust If with Va = Vg = 0								

SPECIFICATION GPO/CV1663/ ISSUE 1.

AMENDMENT NO.1

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DIMENSIONS

Amend the maximum limit dimension "B" to read 46mm

November, 1949.

T.V.C. Office
(for G.P.O.)

WC/63886