

VALVE ELECTRONIC CV1703

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

(POVT 153)

Specification: G.P.O./CV 1703/Issue 1 Dated: 22-9-46 To be read in conjunction with K 1001	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <th><u>Specification</u></th><th><u>Valve</u></th></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> Midget Pentode				<u>MARKING</u>			
<u>CATHODE:</u> Directly heated				See K 1001/4			
<u>ENVELOPE:</u> Unmetallised glass				<u>BASE</u>			
<u>PROTOTYPE</u> XW				Hivac (midget) 5-pin (H5)			
<u>RATING</u>			Note	<u>CONNECTIONS</u>			
				Pin	Electrode		
Filament voltage	(V)	2.0	A	1	G3		
Nominal filament current	(A)	0.07		2	Anode		
Max. anode voltage	(V)	100		3	Filament		
Max. screen voltage	(V)	40		4	Filament		
Mutual conductance	(mA/V)	0.55		5	G2		
				T.C.	G1		
				<u>TOP CAP</u>			
				See K 1001/A1/D5.3			
				<u>DIMENSIONS</u>			
				See K 1001/A1/D1			
				Dimension		Min.	Max.
				A (mm)		-	78
				B (mm)		-	18
<u>NOTE</u>							
A. Measured with $V_a = 100$, $V_g 2 = 40$, and $V_g 1 = 0$							

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note
	Vf	Va	Vg1	Vg2	Vg3		Min.	Max.		
(a)	2.0	-	-	-	-	If (mA)	65.0	75.0	100%	1
(b)	2.0	100	0	40	-	Ia (mA)	0.6	1.15	100%	1
(c)	2.0	100	-1	40	-	Ia (mA)	0.25	0.55	100%	1
(d)	2.0	100	-1	40	-	Reverse Ig (μ A)	-	1.0	100%	1
(e)	2.0	100	0	40	-	gm (mA/V)	0.4	0.7	100%	1

NOTE

1. Before commencing the tests, the filament shall be pre-heated for 10 minutes, the filament voltage being adjusted to 2 volts with all other electrodes disconnected.