

VALVE ELECTRONIC CV1705

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

(POVT 156)

Specification: G.P.O./CV 1705/Issue 1 Dated: 30-9-46 To be read in conjunction with K 1001	<table> <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> Pentode				<u>MARKING</u>			
<u>CATHODE:</u> Indirectly heated				See K 1001/4			
<u>ENVELOPE:</u> Unmetallised glass				<u>BASE</u>			
<u>PROTOTYPE</u> 58				U.S. Medium 6-pin (U.S.M.6)			
<u>RATING</u>			Note	<u>CONNEXIONS</u>			
				Pin	Electrode		
Heater voltage	(V)	2.5	A	1	Heater		
Nominal heater current	(A)	1.0		2	Anode		
Max. anode voltage	(V)	250		3	G2		
Max. screen voltage	(V)	100		4	G3		
Mutual conductance	(mA/V)	1.6		5	Cathode		
				6	Heater		
				TC	G1		
				<u>TOP GAP</u>			
				See K 1001/A1/D 5.1			
				<u>DIMENSIONS</u>			
				See K 1001/A1/D1			
				Dimension		Min.	Max.
				A (mm)		-	98
				B (mm)		-	38
This valve type is obsolete and this specification is for record purposes only.				<u>NOTE</u>			
				Measured with $V_a = 250$, $V_{g2} = 100$,			
				and $V_{g1} = -3$			

TESTS

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

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note
	Vh	Va	Vg1	Vg2	Vg3		Min.	Max.		
(a)	2.5	-	-	-	-	I _f (A)	0.95	1.16	100%	1
(b)	2.5	250	-3	100	0	I _a (mA)	6.2	10.7	100%	1
(c)	2.5	250	-3	100	0	I _{g2} (mA)	1.3	3.6	100%	1
(d)	2.5	250	-3	100	0	Reverse I _{g1} (μA)	-	0.5	100%	1
(e)	2.5	250	-2.5 -3.5	100	0	g _m (mA/V)	1.2	1.9	100%	1
(f)	2.5	250	-39 -41	100	0	g _m (μA/V)	2.0	25.0	100%	1
(g)	2.5	250	-49 -51	100	0	g _m (μA/V)	1.0	6.0	100%	1

NOTE

1. Before commencing the tests, the valve shall be pre-heated for 10 minutes, the heater voltage being adjusted to 2.5 volts with all other electrodes disconnected.