

VALVE ELECTRONIC CV 1707

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

(POVT 158)

Specification: G.P.O./CV 1707/Issue 1 Dated: 6-8-46 To be read in conjunction with K 1001	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></tr> <tr> <td>Restricted</td><td>Restricted</td></tr> </table>	SECURITY		Specification	Valve	Restricted	Restricted
SECURITY							
Specification	Valve						
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>PROTOTYPE</u> 2 A 5					
<u>RATING</u>			<u>BASE</u>		
			U.S. Medium 6-pin (U.S.M.6)		
			<u>CONNECTIONS</u>		
			Pin	Electrode	
Heater voltage (V) 2.5			1	Heater	
Nominal heater current (A) 1.8			2	Anode	
Max. anode voltage (V) 250			3	G2	
Max. screen voltage (V) 250			4	G1	
Max. anode dissipation (W) 8.5			5	Cathode & G3	
Amplification factor 200			6	Heater	
Mutual conductance (mA/V) 2.5					
			<u>DIMENSIONS</u>		
			See K1001/Al/D1		
			Dimension	Min.	Max.
			A (mm)	-	104
			B (mm)	-	45

This valve type is obsolete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

NOTE

A. Measured with $V_a = V_{g2} = 250$,
 and $V_{g1} = -16.5$

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	-	-	-	-	If (A)	1.55	2.16	100%	1
(b)	2.5	250	-16.5	250	-	Reverse Ig1 (μA)	-	1.0	100%	1
(c)	2.5	250	-16.5	250	-	Ia (mA)	25.0	43.0	100%	1
(d)	2.5	250	-16.5	250	-	Ig2 (mA)	3.6	8.4	100%	1
(e)	2.5	250	-15.5 -17.5	250	-	gm (mA/V)	2.0	-	100%	1
(f)	2.5	250	-33	250	-	Ia(cut-off) (μA)	-	10.0	100%	1

NOTE

- 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.