

VALVE ELECTRONIC CV 1712

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

(POVT 183)

Specification: G.P.O./CV1712/Issue 1	<u>SECURITY</u>	
Dated: 11.4.47	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

---> indicates a change

<u>TYPE OF VALVE:</u> Output pentode				<u>MARKING</u>			
<u>CATHODE:</u> Indirectly heated				See K1001/4			
<u>ENVELOPE:</u> Unmetallised glass							
<u>PROTOTYPE</u> 42							
<u>RATING</u>				<u>BASE</u>			
				U.S. Medium 6-pin (USM6)			
				<u>CONNEXIONS</u>			
				Pin		Electrode	
Heater voltage (V) 6.3				1		Heater	
Nominal heater current (A) 0.7				2		Anode	
Max. anode voltage (V) 250.0				3		G2	
Max. screen voltage (V) 250.0				4		G1	
Max. anode dissipation (W) 8.5				5		Cathode & G3	
Mutual conductance (mA/V) 2.5				6		Heater	
Optimum anode load (ohms) 7000							
<u>CAPACITANCES (pF)</u>				<u>DIMENSIONS</u>			
Cag (nominal) 0.6				See K1001/A1/D1			
Cae (nominal) 9.7				Dimension		Min. Max.	
Cge (nominal) 8.3				A (mm)		- 104	
				B (mm)		- 45	
<u>NOTE</u>							
A. Measured with $V_a = V_{g2} = 250$, $V_{g1} = -16.5$, and $I_a = 34$ mA.							

To be performed in addition to those applicable in K1001

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note
	Vh(V)	Va	Vg1	Vg2	Vg3		Min.	Max.		
(a)	6.3	-	-	-	-	Ih (A)	0.64	0.76	100%	1
(b)	6.3	250	-16.5	250	-	Reverse Ig1 (μA)	-	1.0	100%	1
(c)	6.3	250	-16.5	250	-	Ia (mA)	25.0	43.0	100%	1
(d)	6.3	250	-16.5	250	-	Ig2 (mA)	3.6	8.4	100%	1
(e)	6.3	250	-16.5	250	-	gm (mA/V)	2.0	-	100%	1
(f)	6.3	250	-33	250	-	Ia (mA)	-	10.0	100%	1

NOTE

1. Before commencing the tests, the valve shall be pre-heated for 10 minutes, the heater voltage being adjusted to 6.3 volts with all other electrodes disconnected.