

VALVE ELECTRONIC **CV 1712**

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

(POVT 163)

Specification: G.P.O./CV1712/Issue 1 Dated: 11.4.47 To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

→ indicates a change

<u>TYPE OF VALVE:</u> Output pentode <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> 42		<u>MARKING</u> See K1001/4	
<u>RATING</u>		Note	<u>BASE</u> U.S. Medium 6-pin (USM6) <u>CONNEXIONS</u>
Heater voltage (V)	6.3		Pin
Nominal heater current (A)	0.7		Electrode
Max. anode voltage (V)	250.0		1 Heater
Max. screen voltage (V)	250.0		2 Anode
Max. anode dissipation (W)	8.5		3 G2
Mutual conductance (mA/V)	2.5		4 G1
Optimum anode load (ohms)	7000		5 Cathode & G3
		6 Heater	
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u> See K1001/A1/D1
Cag (nominal)	0.8		Dimension
Cae (nominal)	9.7		Min.
Cge (nominal)	8.3		Max.
			A (mm)
			B (mm)
<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 I _{g1} (μA)	-	1.0	100%	1
(c)	6.3	250	-16.5	250	-	I _a (mA)	25.0	43.0	100%	1
(d)	6.3	250	-16.5	250	-	I _{g2} (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	-	I _a (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 6.5 volts with all other electrodes disconnected.