

VALVE ELECTRONIC **CV1713**GENERAL POST OFFICE: E-IN-C (W)

(POVT 164)

Specification: G.P.O./CV1713/Issue 1	<u>SECURITY</u>	
Dated: 19.3.47	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

---> indicates a change

<u>TYPE OF VALVE:</u> R.F. Pentode				<u>MARKING</u>			
<u>CATHODE:</u> Indirectly heated				See K1001/4			
<u>ENVELOPE:</u> Metallised glass				<u>BASE</u>			
<u>PROTOTYPE</u> EP8				Side contact (SC8)			
<u>RATING</u>				<u>CONNEXIONS</u>			
				Note	Pin	Electrode	
Heater voltage	(V)	6.3			1	Metallising	
Nominal heater current	(A)	0.2			2	Heater	
Max. anode voltage	(V)	300.0			3	Heater	
Max. screen voltage	(V)	300.0			4	Cathode	
Max. anode dissipation	(W)	2.5			5	G4	
Max. anode dissipation	(W)	2.5			6	G2	
Mutual conductance	(m/A/V)	1.8	A		7	G3	
Anode impedance	(ohms)	450,000	A		8	Anode	
					T.C.	G1	
				<u>TOP CAP</u>			
				See K1001/A1/D5.2			
				<u>DIMENSIONS</u>			
				See K1001/A1/D1			
				Dimension		Min.	Max.
				A (mm)		-	90
				B (mm)		-	32

This valve type is obsolete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

NOTE

A. Measured with $V_a = V_{g3} = 250$,
 $V_{g2} = V_{g4} = 0$, and $V_{g1} = -2.5$

To be performed in addition to those applicable in K1001

	TEST CONDITIONS						TEST	LIMITS		No. Tested	Note
	Vh(V)	Va	Vg1	Vg2	Vg3	Vg4		Min.	Max.		
(a)	6.3	-	-	-	-	-	Ih (A)	0.18	0.22	100%	1
(b)	6.3	250	-10.0	0	250	0	Ia (mA)	1.5	2.9	100%	1
(c)	6.3	250	-2.5	0	250	0	Ia (mA)	5.8	10.2	100%	1
(d)	6.3	250	-60.0	0	250	0	Ia (μA)	-	14.0	100%	1
(e)	6.3	250	-	0	250	0	Ig3 (mA)	0.11	0.25	100%	1,2
(f)	6.3	250	-	0	250	0	Reverse Ig (μA)	-	0.7	100%	1,2

NOTES

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.
2. Measured with cathode resistance of 300 ohms, and 0.1 megohm resistance between grid and cathode.