

VALVE ELECTRONIC **CV1714**GENERAL POST OFFICE: E-IN-C (W)

(POVT 165)

Specification: G.P.O./CV1714/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>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Metallised glass <u>PROTOTYPE</u> EF9				<u>MARKING</u> See K1001/4		
				<u>BASE</u> Side contact (SC8)		
<u>RATING</u>				<u>CONNEXIONS</u>		
				<u>Note</u>	<u>Pin</u>	<u>Electrode</u>
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)	125.0			4	Cathode
Max. anode dissipation	(W)	2.0			5	G3
Mutual conductance	(mA/V)	2.2	A		6	No connection
Anode impedance	(megohms)	1.25	A		7	G2
					8	Anode
					T.C.	G1
				<u>TOP CAP</u> See K1001/A1/D5.2		
				<u>DIMENSIONS</u> See K1001/A1/D1		
				<u>Dimension</u>		<u>Min.</u>
						<u>Max.</u>
				A (mm)		-
				B (mm)		90
						32
This valve type is obsolete and this specification is for record purposes only.				<u>NOTE</u> A. Measured with $V_a = 300$, $V_{g2} = 100$, $V_{g3} = 0$, 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		Min.	Max.		
(a)	6.3	-	-	-	-	Ih (A)	0.18	0.22	100%	1
(b)	6.3	300	0	100	-	Ia (mA)	10.25	15.75	100%	1
(c)	6.3	300	-6	100	-	Ia (mA)	0.85	2.35	100%	1
(d)	6.3	300	-27	100	-	Ia (μA)	-	20.0	100%	1
(e)	6.3	300	0	100	-	Reverse Ig (μA)	-	0.65	100%	1,2

NOTES

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