

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

(POVT 165)

Specification: G.P.O./CV1714/Issue 1 Dated: 19.3.47 To be read in conjunction with K 1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Restricted

----> indicates a change

<u>TYPE OF VALVE:</u> R.F. Pentode			<u>MARKING</u> See K1001/4																																																										
<u>CATHODE:</u> Indirectly heated			<u>BASE</u> Side contact (SC8)																																																										
<u>ENVELOPE:</u> Metallised glass			<u>CONNEXIONS</u>																																																										
<u>PROTOTYPE:</u> EP9			<u>TOP CAP</u> See K1001/A1/D5.2																																																										
<table border="1" style="width: 100%;"> <thead> <tr> <th colspan="2" style="text-align: center;"><u>RATING</u></th> <th rowspan="2" style="text-align: center;">Note</th> <th colspan="2" style="text-align: center;"><u>Pin</u></th> <th colspan="2" style="text-align: center;"><u>Electrode</u></th> </tr> </thead> <tbody> <tr> <td>Heater voltage</td> <td>(V)</td> <td>6.5</td> <td>1</td> <td>Metallising</td> <td>2</td> <td>Heater</td> </tr> <tr> <td>Nominal heater current</td> <td>(A)</td> <td>0.2</td> <td>3</td> <td>Heater</td> <td>4</td> <td>Cathode</td> </tr> <tr> <td>Max. anode voltage</td> <td>(V)</td> <td>300.0</td> <td>5</td> <td>G3</td> <td>6</td> <td>No connection</td> </tr> <tr> <td>Max. screen voltage</td> <td>(V)</td> <td>125.0</td> <td>7</td> <td>G2</td> <td>8</td> <td>Anode</td> </tr> <tr> <td>Max. anode dissipation</td> <td>(W)</td> <td>2.0</td> <td>T.C.</td> <td>G1</td> <td></td> <td></td> </tr> <tr> <td>Mutual conductance</td> <td>(mA/V)</td> <td>2.2</td> <td>A</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Anode impedance</td> <td>(megohms)</td> <td>1.25</td> <td>A</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>			<u>RATING</u>		Note	<u>Pin</u>		<u>Electrode</u>		Heater voltage	(V)	6.5	1	Metallising	2	Heater	Nominal heater current	(A)	0.2	3	Heater	4	Cathode	Max. anode voltage	(V)	300.0	5	G3	6	No connection	Max. screen voltage	(V)	125.0	7	G2	8	Anode	Max. anode dissipation	(W)	2.0	T.C.	G1			Mutual conductance	(mA/V)	2.2	A				Anode impedance	(megohms)	1.25	A				<u>DIMENSIONS</u> See K1001/A1/D1		
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			A (mm)	-	.90																																																								
			B (mm)	-	32																																																								

This valve type is obsolete and this specification is for record purposes only.

NOTE

A. Measured with $V_a = 300$, $V_{g2} = 100$, $V_{g3} = 0$, 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	-8	100	-	Ia (mA)	0.85	2.35	100%	1
(d)	6.3	300	-27	100	-	Ia (μ A)	-	20.0	100%	1
(e)	6.3	300	0	100	-	Reverse Ig (μ A)	-	0.65	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.