

VALVE ELECTRONIC CV1704

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

(P C V T 155)

Specification: G.P.O./CV 1704/Issue 1	<u>SECURITY</u>	
Dated: 6-8-46	<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 K 1001/4		
<u>ENVELOPE:</u> Unmetallised glass				<u>BASE</u>		
<u>PROTOTYPE</u> 57				U.S. Medium 6-pin (U.S.M.6)		
<u>RATING</u>				<u>CONNEXIONS</u>		
				Note	Pin	Electrode
Heater voltage	(V)	2.5			1	Heater
Nominal heater current	(A)	1.0			2	Anode
Max. Anode voltage	(V)	250			3	G2
Max. screen voltage	(V)	100			4	G3
Amplification factor		1500	A		5	Cathode
Mutual conductance	(mA/V)	1.22	A		6	Heater
Anode Impedance	(megohms)	1.5	A		T.C.	G1
				<u>TOP CAP</u>		
				See K 1001/A1/D5.1		
				<u>DIMENSIONS</u>		
				See K 1001/A1/D1		
				Dimensions		Min. Max.
				A (mm)		- 108
				B (mm)		- 38
This valve type is obsolete and this specification is for record purposes only				<u>NOTE</u>		
				Measured with $V_a = 250$		
				$V_{g2} = 100$, and $V_{g1} = -3$		

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note
	Vh	Va	Vg1	Vg2	Vg3		Min.	Max.		
(a)	2.5	-	-	-	-	Ih (A)	0.95	1.16	100%	1
(b)	2.5	250	-3	100	0	Ia (mA)	1.5	2.7	100%	1
(c)	2.5	250	-8	100	0	Ia (cut-off) (μ A)	0.5	15.0	100%	1
(d)	2.5	250	-3	100	0	Ig2 (mA)	0.3	1.0	100%	1

NOTE

1. Before commencing the tests, the valve shall be pre-heated for 10 minutes, the heater voltage being adjusted to 2.5 volts with all other electrodes disconnected.