

VALVE ELECTRONIC **CV1718**GENERAL POST OFFICE: E-IN-C (W)

(POVT 170)

Specification: G.P.O./CV1718/Issue 1	<u>SECURITY</u>	
Dated: 11.4.47	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

--- indicates a change

<u>TYPE OF VALVE:</u> Triode-pentode <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Metallised glass <u>PROTOTYPE</u> AC/TP				<u>MARKING</u> See K1001/4		
				<u>BASE</u> British 9-pin (B9)		
<u>RATING</u>				<u>CONNECTIONS</u>		
				<u>Note</u>		
				<u>Pin</u>		
				<u>Electrode</u>		
Heater voltage (V) 4.0 Nominal heater current (A) 1.25 Max. anode voltage (pentode) (V) 250.0 Max. anode voltage (triode) (V) 200.0 Max. screen voltage (V) 250.0 Max. conversion conductance (mA/V) 0.9 Mutual conductance (triode) (mA/V) 1.4 Mutual conductance (pentode) (mA/V) 3.4 Peak oscillator grid voltage (V) 3.0				1 Screen grid 2 Pentode anode 3 Suppressor grid 4 Heater 5 Heater 6 Cathode 7 Triode anode 8 Triode grid 9 Metallising T.C. Pentode grid		
				<u>TOP CAP</u> See K1001/A1/D5.1		
<u>NOMINAL CAPACITANCES (pF)</u>				<u>DIMENSIONS</u> See K1001/A1/D1		
				<u>Dimension</u>		
				<u>Min.</u>		
				<u>Max.</u>		
				A (mm) - 124 B (mm) - 50		
This valve type is obsolete and this specification is for record purposes only.				<u>NOTES</u> A. Measured with $V_a = 100$, and $V_{g1} = 0$ B. Measured with $V_a = 250$, $V_{g2} = 200$, $V_{g3} = 0$, and $V_{g1} = 0$		

TESTS

To be performed in addition to those applicable in K1001

	TEST CONDITIONS							TEST	LIMITS		No. Tested	Note
	Vh(V)	Va	Vg1	Vg2	Vg3	Vao	Vgo		Min.	Max.		
(a)	4.0	-	-	-	-	-	-	Ih (A)	1.17	1.43	100%	1
(b)	4.0	-	-	-	-	200	Note 2	Ia (mA)	8.5	-	100%	1,2
(c)	4.0	250	-2	200	0	-	-	Reverse Ig (μA)	-	0.75	100%	1
(d)	4.0	250	-2	200	0	-	-	Ia (mA)	8.7	19.3	100%	1
(e)	4.0	250	-1	200	0	-	-	gm (mA/V)	2.5	-	100%	1
(f)	4.0	250	-29.5	200	0	-	-	gm (μA/V)	6.0	47.0	100%	1
(g)	4.0	-	-	-	-	$\frac{114}{88}$	Adjust	μ	30.0	40.0	100%	1,3

NOTES

1. Before commencing the tests the valve shall be pre-heated for 10 minutes, with heater-voltage adjusted to 4 volts
2. Vgo varied by +6 volts from value required to give Iao = 3 mA.
3. Vgo adjusted to give Iao = 3 mA.