

VALVE ELECTRONIC **CV1698**GENERAL POST OFFICE: E-IN-C (S)

(POVT 148)

Specification: G.P.O./CV 1698/Issue 1	<u>SECURITY</u>	
Dated: 30-8-46	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K 1001	Restricted	Restricted

—————> indicates a change

<u>TYPE OF VALVE:</u> Tetrode				<u>MARKING</u>			
<u>CATHODE:</u> Indirectly heated				See K 1001/4			
<u>ENVELOPE:</u> Unmetallised glass				<u>BASE</u>			
<u>PROTOTYPE</u> A 819				British 7-pin (B7)			
<u>RATING</u>			Note	<u>CONNECTIONS</u>			
				Pin	Electrode		
Heater current	(A)	1.4	A	1	No connection		
Nominal heater voltage	(V)	3.33		2	Anode		
Max. anode voltage	(V)	250		3	No connection		
Max. screen voltage	(V)	250		4	Heater		
Mutual conductance	(mA/V)	4.6		5	Heater		
				6	Cathode		
				7	G2		
				T.C.	G1		
<u>CAPACITANCES (pF)</u>					<u>TOP CAP</u>		
C _{ag}	(max)	0.05			See K 1001/A1/D5.1		
C _{ae}	(max)	12.0		<u>DIMENSIONS</u>			
C _{ge}	(max)	17.0		See K 1001/A1/D1			
				Dimension	Min.	Max.	
				A (mm)	-	120	
				B (mm)	-	50	
<u>NOTE</u>							
A. Measured with V _a = V _{g2} = 120, and I _a = 2.5 mA.							

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS					TEST	LIMITS		No. Tested	Note
							Min.	Max.		
(a)	See K 1001/A III					<u>CAPACITANCES (pF)</u>				
	Links to H.E	Links to L.P.	Links to E							
	2	TC1	1,3,4,5,6,7,8, 9,10,TC2			(i) C _{ag}	-	0.05	6 per week	
	2	4,5,6,7,	1,3,8,9,10, TC1, TC2			(ii) C _{ae}	-	12.0	6 per week	
	T.C.1	4,5,6,7	1,2,3,8,9, 10,TC2			(iii) C _{ge}	-	17.0	6 per week	
	I _h	V _a	V _{g1}	V _{g2}	I _a (mA)					
(b)	1.4	-	-	-	-	V _h (V)	3.1	3.57	100%	
(c)	1.4	120	Read	120	2.5	V _{g1} (V)	-1.2	-1.9	100%	
(d)	1.4	120	Adjust	120	2.5	I _{g2} (mA)	0.52	0.95	100%	
(e)	1.4	120	Adjust	120	2.5	g _m (mA/V)	3.45	5.75	100%	
(f)	1.4	120	-2	120	-	Reverse I _g (μA)	-	0.25	100%	