

VALVE ELECTRONIC CV 1697

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

(POVT 147)

Specification: G.P.O./CV1697/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> Triode-hexode				<u>MARKING</u>				
<u>CATHODE:</u> Indirectly heated				See K1001/4				
<u>ENVELOPE:</u> Metallised glass				<u>BASE</u>				
<u>PROTOTYPE</u> X41				British 7-pin (B7)				
<u>RATING</u>				<u>Note</u>	<u>CONNEXIONS</u>			
					Pin	Electrode		
Heater voltage (V) 4.0					1	Oscillator anode		
Nominal heater current (A) 1.15					2	G0 and G3		
Max. anode voltage (V) 250.0					3	G2 and G4		
Max. screen voltage (V) 80.0					4	Heater		
Max. oscillator anode voltage (V) 150.0					5	Heater		
Conversion conductance (mA/V) 0.55					6	Cathode		
Peak oscillator grid voltage (V) 12.0					7	Anode		
					T.C.	G1		
<u>NOMINAL CAPACITANCES (pF)</u>					<u>TOP CAP</u>			
					See K1001/A1/D5.1			
					<u>DIMENSIONS</u>			
					See K1001/A1/D1			
	TRIODE	HEXODE			Dimension		Min.	Max.
C _{ag}	0.046	3.56			A (mm)		-	135
C _{ae}	21.5	8.5			B (mm)		-	45
C _{ge}	7.0	17.0						

To be performed in addition to those applicable in K1001

	TEST CONDITIONS							TEST	LIMITS		No. Tested	Note
	Vh(V)	Va	Vao	Vg1	Vg2	Vg4	Vgo		Min.	Max.		
(a)	4.0	-	-	-	-	-	-	Ih (A)	1.05	1.25	100%	
(b)	4.0	250	100	-1.5	70	70	10	Ic (mA)	5.4	11.6	100%	
(c)	4.0	250	100	-1.5	70	70	10	Gc (mA/V)	0.32	0.8	100%	1
(d)	4.0	250	100	-3.0	70	70	10	Reverse Ig (μ A)	-	0.8	100%	
(e)	4.0	250	0	-20.0	70	70	10	Ia (mA)	0.03	0.3	100%	
(f)	4.0	-	-	-	-	-	-	H.F. Oscillation Igo (μ A)	60.0	-	100%	1

NOTE

1. Rgo, 100,000 ohms, to be connected in series with the oscillator grid.
These tests to be performed in a test set approved by the Engineer-in-Chief,
Radio Branch.