VALVE ELECTRONIC CV 1697

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

(POVT 147)

Specification: G.P.O./CV1697/Issue 1 Dated: 19.3.47 To be read in conjunction with K 1001	SECURITY Specification: Restricted Valve: Restricted

----> indicates a change

TYPE OF VALVE: Triode-hexode
CATHODE: Indirectly heated
ENVELOPE: Metallised glass
PROTOTYPE: X41

MARKING
See K1001/4

BASE
British 7-pin (B7)

RATING

			Note
Heater voltage	(V)	4.0	
Nominal heater current	(A)	1.15	
Max. anode voltage	(V)	250.0	
Max. screen voltage	(V)	80.0	
Max. oscillator anode voltage	(V)	150.0	
Conversion conductance	(mA/V)	0.55	
Peak oscillator grid voltage	(V)	12.0	

CONNEXIONS

Pin	Electrode
1	Oscillator anode
2	G0 and G3
3	G2 and G4
4	Heater
5	Heater
6	Cathode
7	Anode
T.C.	G1

TOP CAP
See K1001/A1/D5.1

DIMENSIONS
See K1001/A1/D1

Dimension	Min.	Max.
A (mm)	-	135
B (mm)	-	45

NOMINAL CAPACITANCES (pF)

	TRIODE	HEXODE
Cag	0.046	3.56
Cae	21.5	8.5
Cge	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 (μA)	-	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 (μA)	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.