VALVE ELECTRONIC CV 1621

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

(POVT 130)

Specification: G.P.O./CV1621/Issue 1	SECURITY	
Dated: 19.3.47	Specification	Valve
To be read in conjunction with K 1001	Restricted	Restricted

——→ indicates a change

TYPE OF VALVE: Transmitting triode
CATHODE: Directly heated tungsten filament
ENVELOPE: Unmetallised glass
PROTOTYPE ESW 501

MARKING
See K1001/4
Additional markings required (See Notes A & B)
Serial No. .....
Filament Volts 6.0

RATING

			Note
Filament voltage	(V)	6.0	
Nominal filament current	(A)	4.0	
Max. anode voltage	(kV)	1.5	
Max. anode dissipation	(W)	50.0	
Amplification factor		8.0	C
Anode impedance	(ohms)	6,000	C
Max. operating frequency	(Mc/s)	75.0	

CAPACITANCES (pF)

Cag	(nominal)	4.0
Cae	(nominal)	1.26
Cge	(nominal)	1.63

BASE
British 4-pin (B4)

CONNEXIONS

Pin	Electrode
1	No connection
2	No connection
3	Filament
4	Filament
TC1	Anode
TC2	Grid

TOP CAPS
Two fixed tungsten leads approx. 20 mm in length

DIMENSIONS
See K1001/A1/D1

Dimension	Min.	Max.
A (mm)	-	190
B (mm)	-	58

This valve type is obsolete and this specification is for record purposes only.

NOTES

A. The Serial Numbers will be allotted by the Inspecting Officer.
B. It is not essential that the additional markings shall appear within the frame.
C. Measured with Va = 1000, and Ia = 50 mA.

TESTS

The tests shown in Table I or, alternatively, those shown in Table II, shall be performed in addition to those applicable in K1001.

Table I (for A.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf (V)	Va(kV)	Vg(kV)	Ia(mA)		Min.	Max.		
(a)	6.0	-	-	-	If (A)	3.5	4.5	100%	
(b)	6.0	1.0	Adjust	50	Reverse Ig (μA)	-	5.0	100%	1
(c)	6.0	1.0	Adjust	50	μ	7.0	9.0	100%	
(d)	6.0	1.0	Adjust	50	Ra (ohms)	5000	7000	100%	
(e)	6.0	1.0	Read	50	Vg (V)	-65.0	-85.0	100%	
(f)	6.0	0.5	0.5	-	Ie (A)	0.8	-	100%	

Table II (for D.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(kV)	Vg(kV)	Ia(mA)		Min.	Max.		
(a)	6.0	-	-	-	If (A)	3.5	4.5	100%	
(b)	6.0	1.0	Adjust	50	Reverse Ig (μA)	-	5.0	100%	1
(c)	6.0	1.0	Adjust	50	μ	7.0	9.0	100%	
(d)	6.0	1.0	Adjust	50	Ra (ohms)	5000	7000	100%	
(e)	6.0	1.0	Read	50	Vg (V)	-62.0	-82.0	100%	
(f)	6.0	0.5	0.5	-	Ie (A)	0.8	-	100%	

NOTES

1. The duration of test (b) shall be 10 minutes, and the reverse grid current shall not be rising at the end of the test.