VALVE ELECTRONIC CV1617

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

(POVT 51)

Specification: G.P.O./CV1617/Issue 1 Dated: 11.4.47 To be read in conjunction with K 1001	SECURITY Specification: Restricted Valve: Restricted

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

MARKING
See K1001/4
Additional markings required (See Notes A & B)
Serial No. .....
Filament Volts 15.5

RATING

			Note
Filament voltage	(V)	15.5	
Nominal filament current	(A)	10.0	
Max. anode voltage	(kV)	10.0	
Max. anode dissipation	(W)	300.0	
Max. frequency of operation	(Mc/s)	2.0	
Amplification factor		30.0	C
Mutual conductance	(mA/V)	1.65	C
Anode impedance	(k/ohms)	18.0	C

BASE

None

CONNEXIONS

The anode lead shall be brought out at the opposite end of the valve from the grid and filament leads. All leads shall be suitably insulated and bound to the lips of the valve, and the loose ends shall be not less than 6 inches in length.

DIMENSIONS

See K1001/A1/D3

Dimension		Min.	Max.
A	(mm)	-	384
B	(mm)	-	168
C	(mm)	-	68

PACKING

See K1001/A1/D3

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 = 3.5 kV, and Ia = 80 mA.

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(V)	Ia(mA)		Min.	Max.		
(a)	15.5	-	-	-	If (A)	9.5	10.5	100%	
(b)	15.5	4	Adjust	100	Reverse Ig (μA)	-	50.0	100%	1
(c)	15.5	0.4	400	-	Ie (A)	0.6	-	100%	
(d)	15.5	$\frac{2}{5}$	Read	80	μ	25.0	35.0	100%	
(e)	15.5	3	-20	Read	Ia (mA)	90.0	130.0	100%	

Table II (for D.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(kV)	Vg(V)	Ia(mA)		Min.	Max.		
(a)	15.5	-	-	-	If (A)	9.5	10.5	100%	
(b)	15.5	4	Adjust	100	Reverse Ig (μA)	-	50.0	100%	1
(c)	15.5	0.4	400	-	Ie (A)	0.6	-	100%	
(d)	15.5	$\frac{2}{5}$	Read	80	μ	25.0	35.0	100%	
(e)	15.5	3	-13	Read	Ia (mA)	90.0	130.0	100%	

NOTE

1. The duration of test (b) shall be 15 minutes and the reverse grid current shall not be rising at the end of the test.