VALVE ELECTRONIC CV 1609

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

(POVT61)

Specification: G.P.O./CV 1609/Issue 1 Dated: 18-9-46 To be read in conjunction with K 1001	SECURITY	
	Specification	Valve
	Restricted	Restricted

——→ indicates a change

TYPE OF VALVE: Transmitting Triode
CATHODE: Directly heated tungsten filament
ENVELOPE: Silica (tungsten seals)
PROTOTYPE ----

MARKING

See K 1001/4
Additional markings required (See Notes A & B)
Serial No. .....

RATING			Note
Filament current	(A)	29.0	
Nominal filament voltage	(V)	17.0	
Max. anode voltage	(kV)	10.0	
Max. anode dissipation	(kW)	2.5	
Max. operating frequency	(Mc/s)	20	
Amplification factor		70.0	C
Anode impedance	(ohms)	30,000	C

BASE

None (flexible leads)

CONNEXIONS

The anode lead shall be brought out at one end of the valve and the filament and grid leads at the other end.
The length of leads shall be at least 12 inches.

DIMENSIONS

Max. overall length excluding leads	550 mm
Max. diameter	120 mm

NOTES

A. The Serial Numbers will be allotted by the Inspecting Officer.

B. It is not essential that the additional marking shall appear within the frame.

C. Measured with Va = 12 kV, and Ia = 200 mA.

TESTS

The tests shown in Table I, or, alternatively, those shown in Table II shall be performed in addition to those applicable in K 1001.

TABLE I (for A.C. filament heating).

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	If(A)	Va(kV)	Vg(V)	Ia(mA)		Min.	Max.		
(a)	29	-	-	-	Vf (V)	16.0	18.0	100%	
(b)	29	12.5	Adjust	200	Reverse Ig (μA)	-	75.0	100%	1
(c)	29	10	Read	200	μ	62.0	78.0	100%	
		14	Read						
(d)	29	12.5	Read	200	Vg (V)	-15.0	-55.0	100%	

TABLE II (for D.C. filament heating).

	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	If(A)	Va(kV)	Vg(V)	Ia(mA)		Min.	Max.		
(a)	29	-	-	-	Vf (V)	16.0	18.0	100%	
(b)	29	12.5	Adjust	200	Reverse Ig (μA)	-	75.0	100%	1
(c)	29	10	Read	200	μ	62.0	78.0	100%	
		14	Read						
(d)	29	12.5	Read	200	Vg (V)	-6.0	-46.0	100%	

NOTE

1. The duration of test (b) shall be 15 minutes and the reverse grid current shall not be rising after the first 5 minutes.