VALVE ELECTRONIC CV 1620

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

(POVT 59)

Specification: G.P.O./CV1620/Issue 1 Dated: 11.4.47 To be read in conjunction with K 1001	SECURITY Specification: Restricted	Valve: Restricted

——→ indicates a change

TYPE OF VALVE: Transmitting triode
CATHODE: Directly heated thoriated tungsten filament
ENVELOPE: Unmetallised glass
PROTOTYPE: DET 6; 4094A

MARKING

See K1001/4
Additional markings required (See Notes A & B)
Serial No. .....
Filament Volts 10.0

RATING			Note
Filament voltage	(V)	10.0	
Nominal filament current	(A)	3.0	
Max. anode voltage	(kV)	1.5	
Max. anode dissipation	(W)	65.0	
Amplification factor		37.0	C
Mutual conductance	(mA/V)	4.0	C
Anode impedance	(ohms)	9500	C
Max. frequency of operation	(Mc/s)	6.0	

BASE

See drawing on page 3

CONNEXIONS

See drawing on page 3.

DIMENSIONS

See drawing on page 3.

PACKING

See K1001/7.3

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 = 1 kV, and Ia = 30 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(V)	Ia(mA)		Min.	Max.		
(a)	10.0	-	-	-	If (A)	2.8	3.2	100%	
(b)	10.0	1.5	Adjust	43	Reverse Ig (μA)	-	15.0	100%	1
(c)	10.0	0.5 / 1.5	Adjust	30	μ	34.0	40.0	100%	
(d)	10.0	0.75	0	Read	Ia (mA)	50.0	80.0	100%	

Table II (for D.C. filament heating)

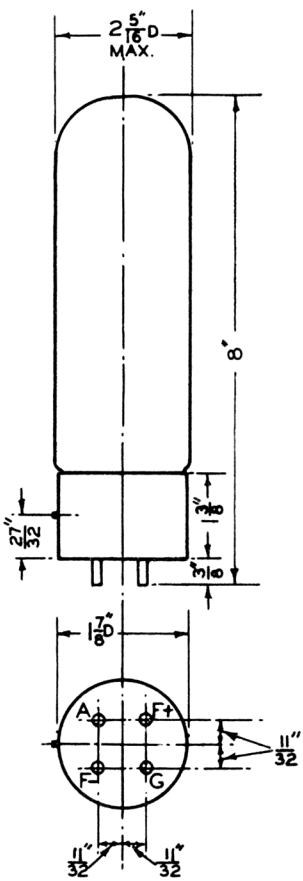
	TEST CONDITIONS				TEST	LIMITS		No. Tested	Note
	Vf(V)	Va(kV)	Vg(V)	Ia(mA)		Min.	Max.		
(a)	10.0	-	-	-	If (A)	2.8	3.2	100%	
(b)	10.0	1.5	Adjust	43	Reverse Ig (μA)		15.0	100%	1
(c)	10.0	0.5 / 1.5	Adjust	30	μ	34.0	40.0	100%	
(d)	10.0	0.75	5	Read	Ia (mA)	50.0	80.0	100%	

NOTE

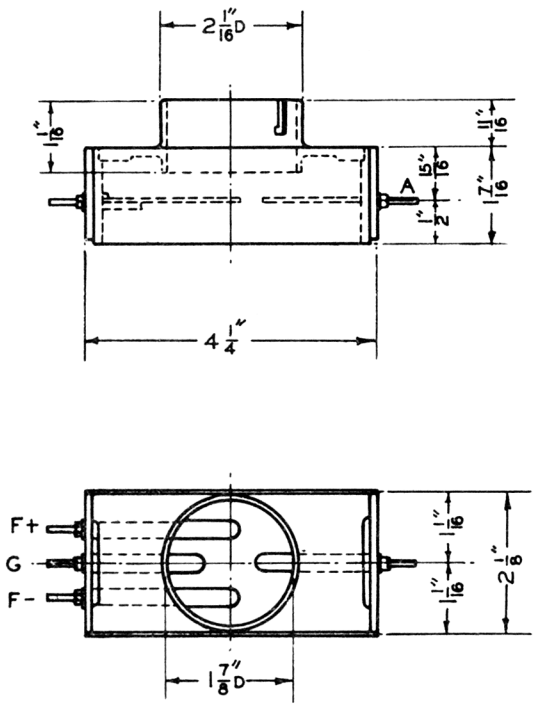
1. The duration of test (b) shall be 10 minutes and the reverse grid current shall not be rising at the end of the test.

CV1620

OUTLINE DRAWING



VIEW OF VALVE BASE



DETAILS OF HOLDER