VALVE ELECTRONIC CV 1606

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

(POVT 62)

Specification:	G.P.O./CV1606/Issue 1	SECURITY				
Dated:	28.11.46	Specification	Valve			
To be read in o	onjunction with K 1001	Restricted	Restricted			

.... indicates a change

TYPE OF VALVE: Triode, water- CATHODE: Directly heate ENVELOPE: Metal-glass PROTOTYPE CAT2	MARKING See K1001/4 Additional markings required (See notes A.B.C) Serial No Filament Volts							
RATING				BASE				
			Note	None				
Filament voltage	` '	As Marked	В					
Nominal filament current	(A)	49.5		CONNEXIONS				
Max. anode voltage (kV)		1	D	See drawing on page 4				
hax. anode current (A)		1.0	D D					
Max. anode dissipation Max. operating frequency	(kW) (Mc/s)							
Amplification factor		45.0	E	DIMENSIONS				
Anode impedance	(ohms)	7250	E	See drawing on page 4				
Max. anode voltage at 22 l	wic/s(kV)	8.0		bee drawing on page 1				
Min. rate of water flow(Ga	als/min)	2.5						
			1	PACKING				
				See K1001/7.3				
NOTES								

NOTES

- A. The serial numbers will be allotted by the Inspecting Officer
- B. The Marked Voltage is defined on page 2, test (a)
- C. It is not essential that the additional markings shall appear within the frame.
- D. The max. frequency of operation for these ratings is 15 Mc/s.
- E. Measured with Ia = 0.8A, and Vg = -50V (A.C. filament) or -41V (D.C. filament).

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

Table I (for A.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No.	
	Vf (AC)	Va(kV)	Vg(V)	Ia(A)		Min.	Max.	Tested	Note
(a)	Read	. 3	3000	-	Vf Minimum required for peak emission of 5.3 amm To be known as "Marked Voltage" (V)	⁶ 17.0	19.0	1005	1
(b)	M.V.	0	0	•	If (A)	47.0	52.0	100%	
(c)	.V.hí	12	Adjust	0.83	Reverse Ig (µA)		80.0	100%	2
(d)	M.V.	10	0	Read	Ia (A)	0.75	1.05	100,6	
(e)	M.V.	Read	0	0,80	μ	40.0	50.0	100%	
		Read	-100						
(f)	M.V.	12	-	-	Oscillation efficiency (%)	66.6	-	100%	3
(g)	M.V.	12	Adjust	O.33	Reverse Ig ()AA)	-	80.0	100%	2

Table II (for D.C. filament heating)

	TEST CONDITIONS				TEST	LILITS		No.	
	Vf(DC)	Va(kV) Vg(V)	Ia(A)		Min.	l'ax.	Tested	Note
(a)	Read	3	3000	-	Vf. Minimum required for peak emission of 5.3 am To be known as "Marked Voltage" (V)	p s 17•0	19.0	100,5	1
(b)	M.V.	0	0	-	If (A)	47.0	52.0	100,6	
(c)	M.V.	12	A djus t	0.83	Reverse Ig (µA)	ı	80.0	100/6	2
(d)	M.V.	10	0	Read	Ia (A)	0.75	1.05	100/	
(e)	M.V.	Read	9	0.80	ц	40.0	50.0	100%	
		Read	-91						
(f)	M.V.	12	-	_	Oscillation efficiency (ん)	66.6	-	100%	3
(g) 11.V.	12	Adjust	0.83	Reverse Ig (µA)	-	80.0	100/	2

NOTES

- 1. (a) The voltage applied to the anode and grid strapped shall be sufficient to draw from the filament a peak emission of 5.3 amps. The test shall be made in accordance with KlOOl/AV
 - (b) Alternatively, the voltage applied to the anode and grid strapped shall be sufficient to draw from the filament an emission of 1 ampere, and the filament voltage required for this emission shall be multiplied by 1.21 to determine the test result.
- The duration of tests (c) and (g) shall be 15 minutes each, and the reverse grid current shall not be rising at the end of either test. Test (c) shall precede test (f), and test (g) shall follow immediately upon the end of test (f).
- The duration of test (f) shall be 15 minutes and the anode current shall not be less than 1 amp.

 The test shall be made by causing the valve to oscillate in an approved circuit, the oscillation frequency being not less than 15 Mc/s. In the event of such a circuit not being available for this test, the valve may be tested in an oscillatory circuit of a frequency not less than 800 kc/s, but, if this applies, the right is reserved to conduct test (f) on service premises in a circuit of frequency not greater than 22 Mc/s, and to reject any valve found to be unsatisfactory at this higher frequency during the test.

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OUTLINE DRAWING.

