VALVE ELECTRONIC CV 1616

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

(POVT 46)

Specification:	G.P.O./CV1616/Issue 1	SECU	SECURITY				
Dated:	21.2.47	<u>Specification</u>	<u>Valve</u>				
To be read in c	onjunction with K 1001	Restricted	Restricted				

indicates a change

TYPE OF VALVE: Transmitting CATHODE: Directly heat ENVELOPE: Unmetallised PROTOTYPE -	MARKING See KlOOl/4 Additional markings required (See Notes A,B & C) Serial No				
RATING			BASE		
		Note	See drawing on page 3		
Filament voltage	As Marked	В			
Nominal filament current (A)		10.0	~	CONNEXIONS	
Max. anode voltage (kV) Max. anode dissipation (W)		4.0 250.0	D D	See drawing on page 3	
Amplification factor		22.0	B		
Mutual conductance (mA/V Anode impedance (ohms		1.75	E	DIMENSIONS	
				See drawing on page 3	
				PACKING	
				See K1001/7.3	

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 maximum frequency of operation for these ratings is 20 Mc/s
- E. Measured with Va = 3 kV, and Ia = 60 mA.

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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(V)	Va(kV)	Vg(kV)	Ia(mA)	1201	Min.	Max.	Tested	Note
(a)	Read	0.4	0.4	-	Vf. Minimum required for peak emission of 0.6 amps. To be known as "Marked Voltage" (V)		13.0	100%	1
(b)	M.V.	•	-	-	If (A)	8.0	12.0	100%	
(c)	M.V.	3	Adjust	84	Reverse Ig (pA)	-	3 0.0	100%	2
(a)	M.V.	2	Adjust Adjust	60	μ	18.0	26.0	100%	
(e)	M.V.	2.5	Read	50	Vg (V)	-56.0	-80.0	100%	

Table II (for D.C. filament heating)

	TEST CONDITIONS				TEST	LIMITS		No.	
	Vf(V)	Va(kV)	Vg(kV)	Ia(mA)		Min.	Max.	Tested	Note
(a)	Read	0.4	0.4	-	Vf. Minimum required for peak emission of 0.6 amps.	11.0	13.0	100%	1
					To be known as "Marked(V)				
(b)	M.V.	-	-	-	If (A)	8.0	12.0	100%	
(c)	M.V.	3	Adjust	84	Reverse Ig (µA)	-	30.0	100%	2
(d) M.V.) V V	2	Adjust	00	д	18.0	26.0	100%	
	M.V.	4	Adjust			10.0	20.0	100%	
(e)	M.V.	2.5	Read	50	Vg (V)	-50.0	-74.0	100%	

NOTES

- 1. The test shall be performed in accordance with Kl001/AV
- The duration of test (c) shall be 15 minutes and the reverse grid current shall not be rising at the end of the test.

OUTLINE DRAWING

