Filament voltage

Nominal filament current

VALVE ELECTRONIC CV 1616

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

Specification: G.P.O./CV1616/Issue 1

(POVT 46)

SECURITY

21.2.47 Specification Valve To be read in conjunction with K 1001 Restricted Restricted indicates a change TYPE OF VALVE: . Transmitting triode MARKING See K1001/4 Directly heated tungsten filament CATHODE: Additional markings required Unmetallised glass ENVELOPE: (See Notes A, B & C) Serial No. PROTOTYPE Filament Volts RATING BASE Note See drawing on page 3 As

Max. anode voltage (kV) 4.0 Max. anode dissipation (W) 250.0

Amplification factor 22.0 E

Mutual conductance (mA/V) 1.75 E

Anode impedance (ohms) 12,500 E

(V)

(A)

Marked

10.0

В

D

D

DIMENSIONS
See drawing on page 3

PACKING
See Kl001/7.3

CONNEXIONS

See drawing on Page 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.

TESTS

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				moca.	LIMITS		No.	
	Vf(V)	Va(kV)	Vg(kV)	Ia(mA)	TEST	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)	11.0	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
(đ)	M.V.	2	Adjust	60	μ	18.0	26.0	100%	
(4)		4	Adjust						
(e)	M.V.	2,5	Read	50	v_g (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	<u> </u>			
(b)	M.V.	-	-	-	if (A	1	12.0	100%	
(c)	M.V.	3	Adjust	84	Reverse Ig (µA)	-	30.0	100%	2
(d)	M.V.	2	Adjust	60	μ	10.0	26.0	100%	
		4	Adjust			18.0			
(e)	M.V.	2.5	Read	50	Vg (V	-50.0	-74.0	100%	

NOTES

- 1. The test shall be performed in accordance with K1001/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

