# ELECTRONIC VALVE SPECIFICATION SPECIFICATION G.P.O./CV 2323 ISSUE 1 DATED OCTOBER 1954

#### AMENDMENT NO.1

.5

Test c

Rev. I<sub>1</sub>g:- Change the maximum limit from 100 uA to 140 uA.

Test d

Rev. I2g:- Maximum limit remains at 40 uA.

Gas current

 $(I_1g-I_2g):$  Maximum limit changed from 70 uA to 100 uA

(65)

P.T.O.

#### Test m

Test Conditions:- Change Va = 8.0 kV, to Va = 7.5 kV nominal.

Oscillation Test:- Change Ia limits to, 2.8A minimum and 3.0A maximum

Amend Note 5 to read:- Oscillation frequency = 0.5 Mc/sIg =  $400-500 \text{ mA} \cdot \text{Rg} = 1680 \text{ ohms} \cdot$ 

GENERAL POST OFFICE E-IN-C (S)

March, 1962

#### VALVE ELECTRONIC

#### GENERAL POST OFFICE: E-IN-C (S )

CV2323

Specification: G.P.O./CV.2323 Issue 1.	SECURITY			
Dated: October, 1954.	Specification	<u>Valve</u>		
To be read in conjunction with K 1001	Unclassified	Unclassified		

→ indicates a change

TYPE OF VALVE: Air Blast cooled Triode  CATHODE: Directly heated. Thoriated Tungsten filament ENVELOPE: Copper/glass. Nickel/Iron/Cobalt/allo PROTOTYPE B.R. 179.	MARKING  See K 1001/4  Additional markings required (See Note B)  Serial No		
RATING	N 0 T E	BASE See drawing, page 3.	
Filament voltage (V) 6.6 Filament current (nominal) (A) 90.0 Max.direct anode (voltage) (kV) 8.5 Max. anode dissipation (kW) 8.0 Max. grid dissipation (kW) 0.6 Amplification factor 28.0	A	CONNEXIONS See drawing, page 3	
Mutual conductance (mA/V) 10.0 Peak usable emission (A) 16.0 Max. frequency for above ratings (Mc/s) Air flow 475 c/f/minute at a pressure drop of 1.3 inches water gauge		<u>DIMENSIONS</u> See drawing, page 3	
CAPACITANCE (pF)  Cag Cgf Caf 1.0		PACKAGING See K 1005	

#### NOTES

- A. Measured at Va = 5 kV. Ia = 1.0A.
- B. It is not essential that the additional markings shall appear within the frame.
- C. The grid and filament seals require cooling with an air flow of 15 c. ft/min. from a 1" nozzle directed vertically downwards on the valve.

CV 2323/1/1

Z.7852.R.

### CV2323

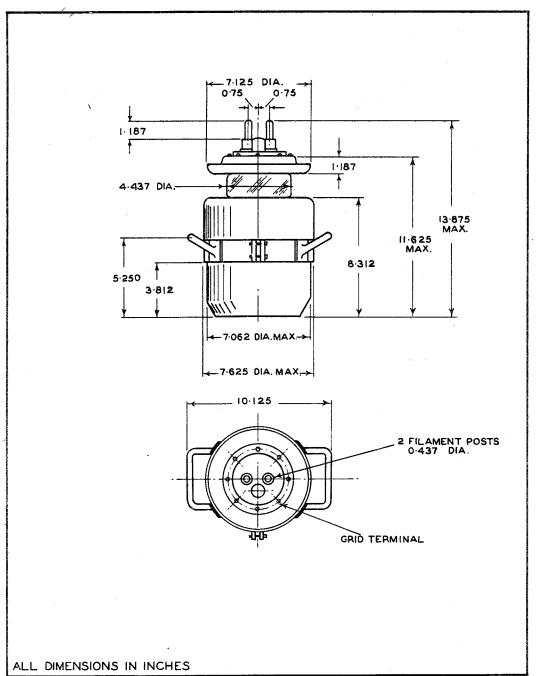
## TESTS To be performed in addition to those applicable in K 1001

TEST CONDITIONS		TEST		LIMITS		NO.	NOTE					
	TEST CONDITIONS TEST			MIN. MAX		TES-	NOIE					
a	See K	1001/	'A III		CAPACITANCES (pF) Cag Cgf Caf		28 28 RE	36 38 ORD	10%			
	Vř	Va	Vg	Ia								
ъ	(V)	(kV)	(V)	(A)	. 💎							
	6.6	-	-	-	If	(A)	83	97	100%	2.		
c	6.6	10.0	Ađjust	0.9	Rev. I1g	(pA)	-	100	100%	1.2.		
đ	6.6	10.0	Adjust	0.1	Rev. I2g Gas current =I1g-12g	(A4)	-	40 70	100%	2.		
e	6.6	10.0	Read	0,1	Vg.	(v)	-	-400	100%	2.		
£	6.6	5.0	Read	1.0	Vg.	(A)	-15	-55	100%	2.		
g	2 2	Read O	1.0		······································	25	32	100%	2.			
		Read	-100	1,0	P .							
h	6.6	1 2.0 -	5.0	5.0	5.0 Read	1.5	<b>gm</b>	(mA/V)	7.5	12.5		2.
			Read	0,5		(may v)		12.5	100%			
j	6.6	2.0	+200	Read	Ia Ig	(A) (A)	2.2	3.0 0.3	100%	4.2.		
k	6.6	3,0	3000		Ie	(A)	29	-	100%	3.2.		
					OSCILLATION TEST	· · · · · · · · · · · · · · · · · · ·						
m	6.6	8.0			Ia	(A)	1.4	1.8	100%	5.2.		
n	6,6				Repeat tests c.d.k.		as for tests		100%	2.		

#### NOTES

- 1. Test c shall be continued for 15 minutes and the value of Ig shall not be rising at the end of the test. Limit figure of 100 µA refers to reading at end of test.
- Test to be carried out with the filament heated by 50. c.p.s. current and all
  circuit returns shall be made to the centre tap on the filament transformer
  secondary. Air flow of 700 c/f/minute through radiator.
- Peak emission to be obtained by pulse methods as outlined in K 1001 AV, or by other approved apparatus.
- 4. Spot readings, or by pulse method.
- Oscillation frequency 20 Mc/s approx. Ig = 180-220 mA. Rg = 2,500 ohms.
   Oscillate for 20 minutes.

CV 2323/1/2



C V 2323/1/3