VALVE ELECTRONIC

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

CV2323

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

TYPE OF VALVE: Air Blast cooled Triode	MARKING		
CATHODE: Directly heated. Thoriated Tungsten filament ENVELOPE: Copper/glass. Nickel/Iron/Cobalt/all PROTOTYPE B.R. 179.	See K 1001/4 Additional markings required (See Note B) Serial No		
RATING	N O T E	BASE See Grawing, page 3.	
Filament voltage Filament current (nominal) Max.direct anode (voltage) Max. anode dissipation Max. grid dissipation Amplification factor Mutual conductance Peak usable emission Max. frequency for above ratings Air flow 475 c/f/minute at a pressure drop of 1.3 inches water gauge (A) 6.6 6.6 6.6 6.6 6.6 6.6 6.6 6	Á	CONNEXIONS See drawing, page 3 DIMENSIONS See drawing, page 3	
Capacitance (pF) Cag Cgf Caf 1.0		<u>PACKAGING</u> 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.

CV2323

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

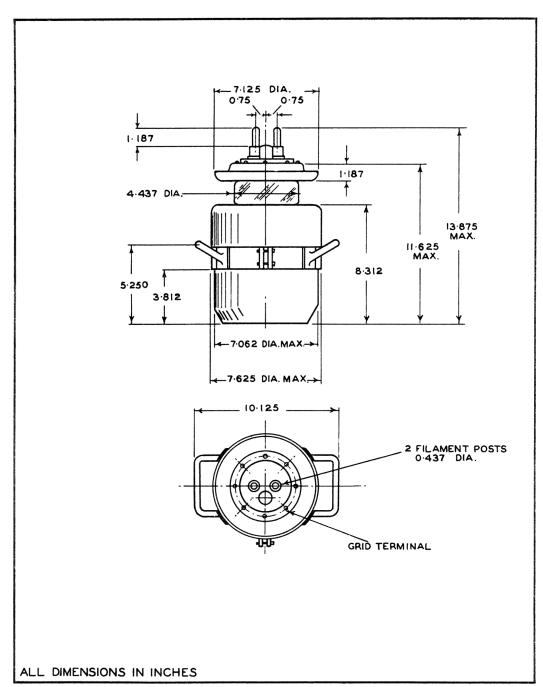
TEST CONDITIONS		TEST		LIMITS		NO.	NOTE			
	150	1 COND.	1110115		TEST		MIN.	MAX.	TES-	NOTE
a	a See K 1001/A III				CAPAC Cag Cgf Caf	SITANCES (pF)	28 28	36 38 30RD	10%	
	VP	Va	Vg	Ia			1	TORB		
ъ	(V)	(kV)	(v)	(A)	1					
	6.6	-	-	-	If	(A)	83	97	100%	2.
c	6.6	10.0	Ađjust	0.9	Rev	, I1g (μA)	-	100	100%	1.2.
đ	6.6	10.0	Adjust	0.1	Rev. Gas	I2g current =I1g-I2g (μΑ)	-	40 10070	100%	2.
е	6.6	10.0	Read	0.1	Vg.	(V)	-	-400	100%	2.
f	6.6	5.0	Read	1.0	Vg.	(v)	-15	- 55	100%	2.
		Read	0	1.0			25	32	100%	2.
g	6.6	Read	-100	1.0	۴					
h	6.6 5.			1.5	gm	(mA/V)	7.5	12.5	100%	2.
_			0.5		ļ					
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.
m	6.6	7.5 8.0			Ia	OSCILLATION TEST 44+' (A)	2.8 1.4	3.0 1.8	100%	5.2.
n	6.6				Repea	t tests c.d.k.	as for tests	3	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.

400-500 1680 Andt)

Oscillation frequency 20 Mc/s approx. Ig = 130-220 mA. Rg = 2,500 ohms.
 Oscillate for 20 minutes.



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

AMENDMENT NO.1

Test c Rev. I,g:- Change the maximum limit from 100 uA to 140 uA.

Test d

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

Gas current

(I_g-I_gg):- Maximum limit changed from 70 uA to 100 uA P.T.O.

Test m

(11765)

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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/s $Ig = 400-500 \text{ mA} \cdot Rg = 1680 \text{ ohms} \cdot$

> GENERAL POST OFFICE E-IN-C (S)

March, 1962