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

VALVE ELECTRONIC CV 2322

Specification: G.P.O./CV 2322. Issue 1A Dated: May. 1963	SECURI TY			
To be read in conjunction with K 1001	Specification Unclassified	<u>Valve</u> Unclassified		

TYPE OF VALVE: Air Blast Cooled Triode. CATHODE: Directly heated. Thoriated tungsten filame ENVELOPE: Copper - glass. Nickel/Iron/Cobalt/Alloy. PROTOTYPE: BR 161		MARKING See K 1001/4 Additional markings required (See Note C) Serial No		
RATING		NOTE	BASE See drawing, page 3.	
Max. anode dissipation Max. grid dissipation Amplification factor Mutual conductance Peak usable emission Max. frequency for above ratings (Mc	(V) 9.0 (A) 175.0 12.0 kW) 15.0 kW) 23.0 (A) 45.0 (A) 45.0 (A) 50.0	A B	CONNECTIONS See drawing, page 3. DIMENSIONS See drawings, page 3.	
CAPACITANCE (pf) Cag C in C out	36.0 57.0 1.5		PACKAGING See K 1005	
Cout			See K 1005	

- B measured at Va = 10 kV, Ia = 1.5A.
- C It is not essential that the additional markings shall appear within the frame.
- D In addition to this the grid and filament seals require air cooling with a flow of 20 c.ft./min. from a 1 mozzle directed vertically downwards on to the valve.

(204695)

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TESTS

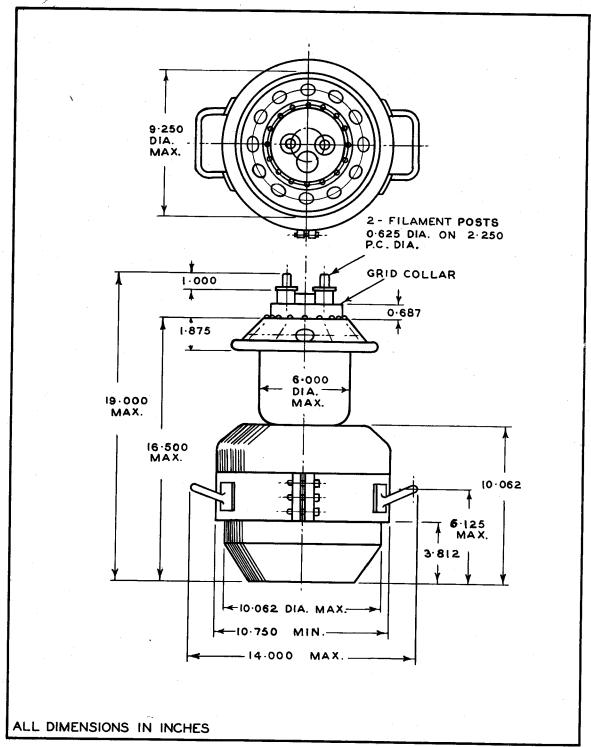
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To be performed in addition to those applicable in K 1001

TEST CONDITIONS		TEST		LIMITS		No. TES-	NOTES			
		IESI CUN	21 CONDITIONS 1521		MIN.	MAX.	TED	MULES		
a See K 1001/APP III		CAPACITANCE (pF) C a g C in		32 50 RECO	42 62 Ord	10≴				
b	Vf (V) 9.0	Va (kV)	Vg (V) -	Ia (A)	If	(A)	163	192	100%	2
C	9.0	12.0	Adjust	2.0	Rev. I1g	(µA)	-	230	100≴	1.2
d	9.0	12.0	Adjust	0.1	Rev. 12g Gas current = I1g-12g	(μλ)	- -	80 190	100%	2
•	9.0	8.0	Read	0.35	Vg	(v)	-158	-222	100%	2
f	9.0	10.0 8.0	Read Read	2.0	ф		37	48	100≴	2
g	9.0	10.0	Read Read	1.0	g∎	(mA/V)	21.5	29	100%	2
h	9.0	2.0	+ 250	Read	Ia Ig	(A) (A)	7.0 0.5	12.0 4.0	100%	4.2
j	9.0	4.0	+ 250	Read	Ia Ig	(A)	9.5 0	14.5 2.5	100%	4.2
k	9.0	3.0	3,000		Ie	(A)	85	•	100%	3.2
•	9.0				Repeat tests c.d.	_	as tests	for	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.
- 2. Tests 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 2,000 c/f/minute through radiator.
- 3. Peak emission to be obtained by pulse methods as outlined in K 1001App.V or by other approved apparatus.
- 4. Spot readings only, or by pulse methods.



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