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VALVE ELECTRONIC CV. 436

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

Specification: G.P.O./CV436/Issue 4	SECURITY		
Dated: January, 1956	<u>Specification</u>	<u>Valve</u>	
To be read in conjunction with K 1001 and BS 1409	Unclassified	Unclassified	

_____ indicates a change

				L		
TYPE OF VALV CATHODE: ENVELOPE: PROTOTYPE	E: Disc seal triode Indirectly heated Copper-glass E1996 (ACT 25)	MARKING As per K1001/4 plus a serial number. CV marking to be acid stamped on outside of radiator housing. Serial number to be engraved under CV marking.				
	RATING		Note	Tanada VI maanaang i		
Heater voltage				DIMENSIONS AND CONNEXIONS (See Note C)		
	pace current CW (A) emission (A) ion factor ductance (mA/V)	A B B	See drawing on page 3			
(1) at 50	OO Mc/s with 7 db gain	60% 30%				
	CAPACITANCES (pF) Cag Cgc Cac	13.0 22.0 0.4				

NOTES

- A. For this dissipation forced air cooling shall be provided by not less than 30 cu. ft. of air per min. through the anode radiator with a pressure drop of the order of $2\frac{1}{2}$ inches of water, and approx. 5 cu.ft. of air per min. through the grid diffuser. The temperature on the outside of the anode flange and on the copper part of grid disc should not exceed 100°C. These conditions apply for ambient temperatures up to 30°C.
- B. For Va = 1.0 kV., Ia = 250 mA.
- C. A rigid connexion must be made to one electrode only.
- D. For C.W. conditions Vh should be 13.5 Volts

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TESTS

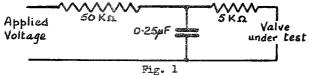
To be performed in addition to those applicable in K1001

	TEST CONDITIONS			TEST		LIMITS		No.		
	12.	ST COND	TITONS		TEST		Min.	Max.	Tested	Note
	٧r	٧g	٧a	Ia (mA)	Conditions to be maintained for a period of one minute without flashing.					
a	15	- 500	4000	-					1.00%	1
ъ	1 5	0	0	0	If	(A)	2.7	3•3	100%	
С	15	adjust	1000	250	٧g	(v)	2.5	8.0	100%	2
đ	15	adjust	1000	250	Reverse Ig	(pa)	-	20	100%	2
е	1 5	adjust	800	250	Vg change from value found in test (C)	(V)	1.9	3 . 6	100%	.2
f	15	-	1000 rid swin	_	gm	(mA/V)	20	•	100%	2
g	15	adjust	1000	50	Vg	(V)	-	-17	100%	2
h	1 5	Anode a strappe voltage Prf = pulse l	and grid ed. Pea e = 750, 50 c.p.s Length =	kapplied	Peak emission	(A)	60	-	100%	2
Ĵ		rement d			CAPACITANCES Cag Cgc Cac	(pF)	11.0 19.0	15.0 25.0 0.6	6 per week	

NOTES

1. Test (a) forms part of the processing of the valve, and having been met during manufacture, shall not be repeated for acceptance testing.

For this not flash test, applied voltages shall be supplied through a circuit as in fig. 1.



2. For these tests forced air cooling as detailed in Note A on page 1, shall be used.

OUTLINE DRAWING

