VALVE ELECTRONIC CV220

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	pecification No. MOS/CV220/3			SECURITY cification Valve					
	Dated: 25.9.45.	1		stricted	****	_			
ľ	To be read in conjunction with				Restric	rea	-		
	K1001 ignoring clauses 5.2, 5.8.	 					l		
Indicates a change WATUE . Cold cathode four MARKING									
	TYPE OF VALVE: Cold cathode four	MARKI							
	electrode neon		74004/1						
	discharge tube.	As in K1001/4			-				
	ENVELOPE: Glass.								
	COMMERCIAL PROTOTYPE : 631.P.1.								
- [
	RAT ING		Note	BASE		-			

	Anode voltage D.C. (max)(volts)	350		VSS4					
	Anode voltage D.C. (min)(volts)	220	A	i i					
	Average anode current (max)(mA)	100							
	Grid 1-Grid 2 voltage (max)(volts)	150		Pin -		trode			
Ì	Frequency (max) (p.p.s.)	250		1	G/2	-			
- 1	Peak discharge current (max)(amps)	250		2	A				
				3	G.	1			
	Typical Operating Conditions			4	C		ļ		
1	Anode voltage D.C. (volts)	330	A	DIMENSIONS			•		
	Average anode current (mA)	35			/·· /-	_			
	Peak discharge current (amps)	100		See K1001/A1/D1					
							l		
				mms.	Min.	Max.			
Ì				A	45	110	 		
			لـــــا	В		35	j		

NOTES

- A. Refers to D.C. supply voltage (across C1 in Fig. 1)
- B. The Tube shall operate normally between the ambient temperatures -35°C and +60°C.

TESTS

	To be performed in addition	to those applicabl	e in	K1001	١	
	Test Conditions		Limits		No.	
		Test	Min.	Max.	Tested	
8	In test circuit of Fig. 1 or in strobotac unit the tube is triggered at frequencies of 50 p.p.s. and 250 p.p.s. with 330V D.C. across reservoir condenser C1. The accuracy of the tube to be tested by an approved method (see Note 1).	Frequency test The tube shall flash steadily at both fre- quencies				
Ъ		Grid 2 starting potential Grid 2 breakdown potential (measured just before discharge)(volts)	80	130	100%	
C	Wing test circuit of Fig.2 with the switch set to pos- ition (c),330V D.C. is applied across reservoir condenser.	Anode-Grid 2 Breakdown The tube shall not fire			100%	
đ	In test circuit of Fig. 1 the tube is triggered at 50 p.p.s. with 330V across reservoir condenser. Notes 1 and 2.	Life Test Life (hours)	300		178	

NOTES

- 1. A recommended method is to use an oscilloscope with a split phase 50 cycle supply for producing an elliptical image. Strobotron pulses are superimposed on a deflector plate to enable pulses at 50 and 250 cycles to be examined.
- 2. The tube shall be considered to have reached its life end point when it will not fire or fires at a frequency not directly controlled by the multivibrator, or shows a continuous discharge.

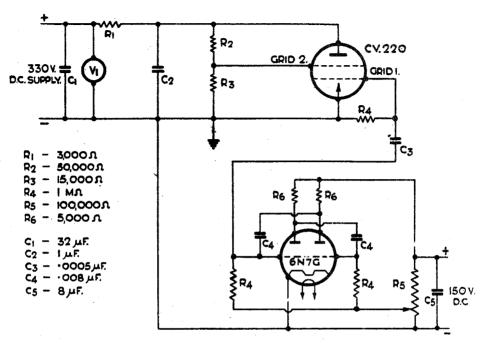
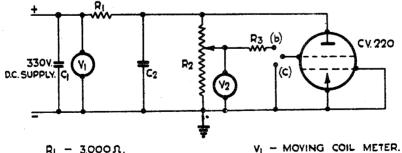


FIG. 1.



 $R_1 - 3.000 R$.

R2 - 500,000 A.

R3 - 20,000 A.

Ci - 32 ME

C2 - 1µF.

FIG. 2.

V2 - MOVING COIL METER OF

5,000 J. PER VOLT MINIMUM