VALVE ELECTRONIC CV220

Specification No. MOS/CV220/3 Dated: 25.9.45. To be read in conjunction with K1001 ignoring clauses 5.2, 5.8. Indication No. MOS/CV220/3 Indication No. MOS/CV220/3 To be read in conjunction with	(Inc	stricte d tassifu	on Valve	eted luelo	rsee
TYPE OF VALVE: Cold cathode four electrode neon		C. CII	MARKI	LNG		
discharge tube. ENVELOPE: Glass.			As in Ki	1001/4		*
COMMERCIAL PROTOTYPE : 631.P.1.						
RATING	The same of the sa	Note	PASE	3		
Anode voltage D.C. (max)(volts)	350		USS4	+		
Anode voltage D.C. (min)(volts) Average anode current (max)(mA)	220 100					
Grid 1-Grid 2 voltage (max)(volts) Frequency (max) (p.p.s.)	150 250		Pin ·	Elec	trode	
Peak discharge current (max)(amps)			2	A		
Typical Operating Conditions			4	G.	•	
Anode voltage D.C. (volts) Average anode current (mA)	330 35	A	DIME	NSIONS		
Peak discharge current (amps)	100		See K1001/A1/D1			
			mms.	Min.	Max.	
			A B	45	110 35	4

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 applicable in K1001.									
	Test Conditions		Limits		No.				
		Test	Min.	Max.	Tested				
a	In test circuit of Fig. 1	Frequency test							
	or in strobotac unit the	The tube shall							
100000000000000000000000000000000000000	tube is triggered at	flash steadily							
	frequencies of 50 p.p.s.	at both fre-							
	and 250 p.p.s. with 330V	quencies							
	D.C. across reservoir								
	condenser C1. The								
	accuracy of the tube to								
	be tested by an approved	·							
	method (see Note 1).								
Ъ		Grid 2 starting							
	Fig. 2 with switch set to	potential							
	position (b), 330V D.C. is	Grid 2 breakdown							
900000	applied across the reservoir		80	130	100%				
0	condenser. The voltage on	ured just before							
	Grid 2 is raised until tube	discharge)(volts)							
-	fires.								
0	Using test circuit of Fig.2	Anode-Grid 2			100%				
COMPANY	with the switch set to pos-	Breakdown							
1	ition (c),330V D.C. is applied	The tube shall							
	across reservoir condenser.	not fire							
d		Life Test		-					
200	the tube is triggered at								
	50 p.p.s. with 330% across	Life (hours)	300	-	1%				
0	reservoir condenser.				·				
	Notes 1 and 2.								

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.

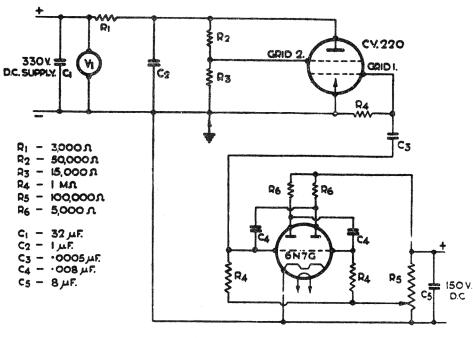
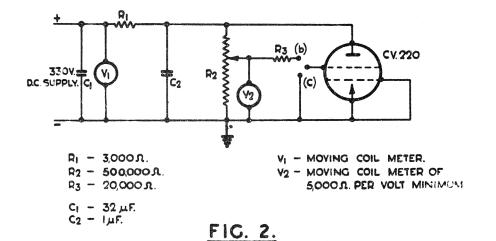


FIG. I.



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