MINISTRY OF SUPPLY (D.C.D.)

VALVE ELECTRONIC **CV1069**

Specification MAP/CV1069/Issue 6
Dated 6.1.49
To be read in conjunction with K.1001.

SECURITY	
Specification	Valve
RESTRICTED	UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE: Voltage stabiliser
CATHODE: Cold
ENVELOPE: Glass unmetallised
PROTOTYPE: STV.280/80

MARKING
See K.1001/4

PACKING
See K.1005

RATING			Note
Max. Striking Voltage	(V)	363	
Nominal operating Voltage at Cathode Current	(mA)	40	
Anode 1 - Cathode	(V)	73	
Anode 2 - Cathode	(V)	143	
Anode 3 - Cathode	(V)	205	
Anode 4 - Cathode	(V)	282	
Max. Cathode Current	(mA)	80	

BASE
B5
See K.1001/AIV/D5.2

Pin	Electrode
1	Anode 4
2	Cathode
3	Anode 2
4	Anode 3
5	Anode 1

DIMENSIONS
See K.1001/A1/D1

mm.	Min.	Max.
A	135	145
B	58	62

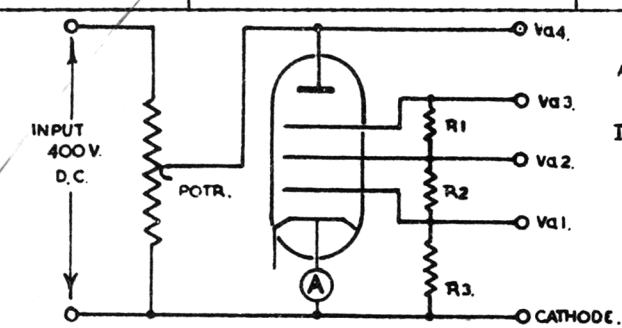
CV1069

TESTS

To be performed in addition to those applicable in K1001. The Valve, unless otherwise stated, shall be tested in the circuit shown in Figure 1. If the Valve fails in any of the tests below, it shall be retested after 15 minutes of operation at Ic = 80 mA.

	Test Conditions	Test	Limits Min.	Limits Max.	% Tested
a	Applied voltage increased from zero until current flows.	Striking Voltage V_{a4} (V)	-	363	100%
b	Current through A = 40mA.	Operating Voltages after 15 mins. read:- (V)			100%
		(I) V_{a1}	60	87	
		(II) V_{a2}	120	167	
		(III) V_{a3}	185	226	
		(IV) V_{a4}	250	314	
c	Current through A =	Impedance			
	I 80 mA. II 20 mA. III 10 mA.	V_{a3} (80 mA) — V_{a3} (10mA) (V) V_{a3} (20 mA) — V_{a3} (10mA)	- -	14 2.0	100%
d	Filter shewn in Fig. 2. connected between A4 and cathode. Current through A varied from 10 mA. to 80 mA.	Noise. R.M.S. Voltage produced across output of filter. (mV)	-	0.1	100%

FIG 1.



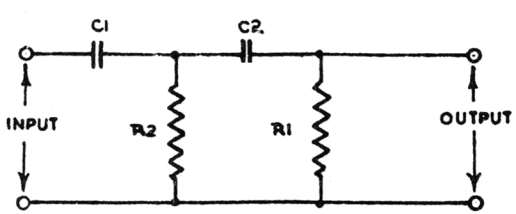
NOTES.

A = LOW RESISTANCE MILLIAMETER.

I_a = CURRENT THROUGH A.

R1 = R2 = R3 = 100,000 Ω

FIG 2.



NOTES.

C1 = C2 = 0·02 μF

R1 = R2 = 20,000 Ω