VALVE ELECTRONIC **CV 2225**
(VX8068)

MINISTRY OF SUPPLY (S.R.D.E.)

Specification MOS/CV2225/Issue 4
Dated:- 10.3.53
To be read in conjunction with K1001 ignoring clause 5.2

SECURITY	
Specification	Valve
Unclassified	Unclassified

→ indicates a change

TYPE OF VALVE: Gas-filled voltage stabiliser
CATHODE: Cold
ENVELOPE: Glass unmetallised
PROTOTYPE: 150B2

MARKING

See K1001/4

RATING		Note
Max. Striking Voltage (V)	180	
Mean Voltage Drop Across Valve operating at 10 mA (V)	150	
Operating Current (mA)	10	
Min. Cathode Current (mA)	5	
Max. Cathode Current (mA)	15	
A.C. Resistance at 10 mA (ohms approx.)	250	
Ambient Temp. Range (°C)	-55 +90	

BASE

B7G

CONNECTIONS

Pin	Electrode	
1	Anode	
2	Cathode	
3	Internal Connection	←
4	Internal Connection	←
5	Internal Connection	←
6	Internal Connection	←
7	Internal Connection	←

DIMENSIONS

See K1001/A1/D4

Dimensions	Min.	Max.
A mm.		54
B mm.		19

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions	Test	Limits Min	Limits Max	No. Tested
a	With a resistor of 5,000 ohms in the anode circuit, increase the applied voltage until current flows.	Striking Voltage (V)	-	180	100%
	Before making the following tests run the valve for 3 minutes with the cathode current adjusted to 10 mA.				
b	Cathode current at 10 mA.	Output Voltage (V)	146	154	100%
c	Cathode current varied from 5 mA to 15 mA	Output Voltage Change (V)		5	100%
d	During this operation the valve shall be tested for freedom from noise with a calibrated amplifier-detector, having a substantially linear response over the range 50 to 5,000 c.p.s. connected between the anode and cathode. The noise input voltage must not exceed 250 mV peak to peak at any point with the cathode current varied from 5 mA to 15 mA.				100%
e	Voltage Stability During Life With the valve set up to operate under normal conditions at I_c = 10 mA the maximum percentage variation of the stabilised voltage during a period of 2,000 hrs. shall not exceed ± 1%. This test may, if desired, be made on valves undergoing normal factory life tests and examination of the records of such tests will normally be considered to fulfil the requirements of this test clause.				