MINISTRY OF SUPPLY (D.L.R.D.(A)) R.A.E.

VALVE ELECTRONIC **CV 2265**

Specification MOSA/CV2265 Issue 2 Dated 28.5.54 To be read in conjunction with K.1001	SECURITY	
	Specification	Valve
	UNCLASSIFIED	UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Gas Filled Diode

CATHODE - Cold

ENVELOPE - Glass

PROTOTYPE - VX.9077

MARKING

See K.1001/4.4.

Each valve shall be marked with the number CV2265, the date code, and if possible the factory identification code. A red spot shall indicate the anode. ←

RATING			Note
Nominal Striking Voltage	(V)	120	

BASE

Flying Leads

See Drawing on Page 3

CONNECTIONS

See Drawing on Page 3

DIMENSIONS

See Drawing on Page 3

Dimension	Min.	Max.
Length m.m.	25	29
Diameter m.m.	7.0	8.5

WARNING NOTE ←

In view of the Radio Active Materials used in the construction of these valves, great care should be taken in the handling of same, especially where breakages occur.

To be performed in addition to those applicable in K.1001.

	Test Conditions		Limits Min.	Limits Max.	No. Tested	Note
FINAL ACCEPTANCE TESTS ON THESE VALVES SHALL NOT BE PERFORMED UNTIL 4 WEEKS AFTER MANUFACTURE						
a	Electrical Leakage Test Va - c = 115 D.C. Volts	Ia (μA)	-	0.01	100%	1,2.
b	(1) Tested with a Waveform having low rate of rise (2 kV/sec ± 2%)	Striking Voltage (V)	123.2	128.2	100%	1,2, 3,5.
b	(2) Tested with a Waveform having low rate of rise (2 kV/sec ± 2%) (3) Tested with a Waveform having low rate of rise (2 KV/sec ± 2%)	Striking Voltage Scatter (Related to the Striking Voltage measured in b(1) above) (V)	-0.4	+0.4	100%	1,2, 3,5.
c	Tested with a Waveform having high rate of rise (16 kV/sec ± 2%)	Slope of Striking Voltage Characteristic $V/(kV/sec)^{\frac{1}{2}}$	1.15	1.75	100%	1,2,5.
d	Tested in circuit as shown on Page 3, or by means of the RAE extinction voltage test gear	Extinction Voltage Test (V)	-	70	2%	1,6.
e	See Note 4	Shock Test	To be determined		2%	4.

NOTES

1. All tests shall be performed with the valve enclosed in an approved light proof container.

2. These tests shall be performed with equipment approved by the Design Authority.

3. The intervals between tests b(1), (2) and (3) shall be not less than 1 sec. duration.

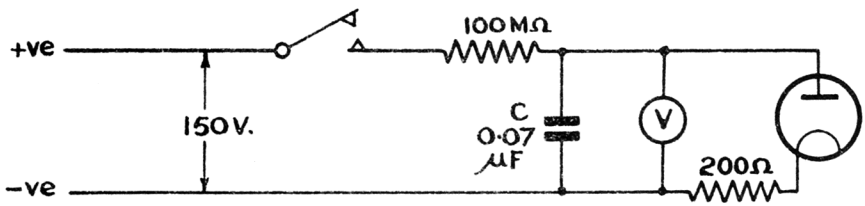
4. This test shall be performed in equipment approved by the Design Authority. Samples subjected to this treatment will be re-tested to clauses a, b, c, and d, to determine the effect of the shock.

   Valves subjected to this test shall not be supplied as part of any contract.

5. Measured with a load resistance of 100 kΩ.

6. There is in existence an approved type of test gear designed for measuring Extinction Voltage which is described in R.A.E. Technical Note EL.21.

CV2265



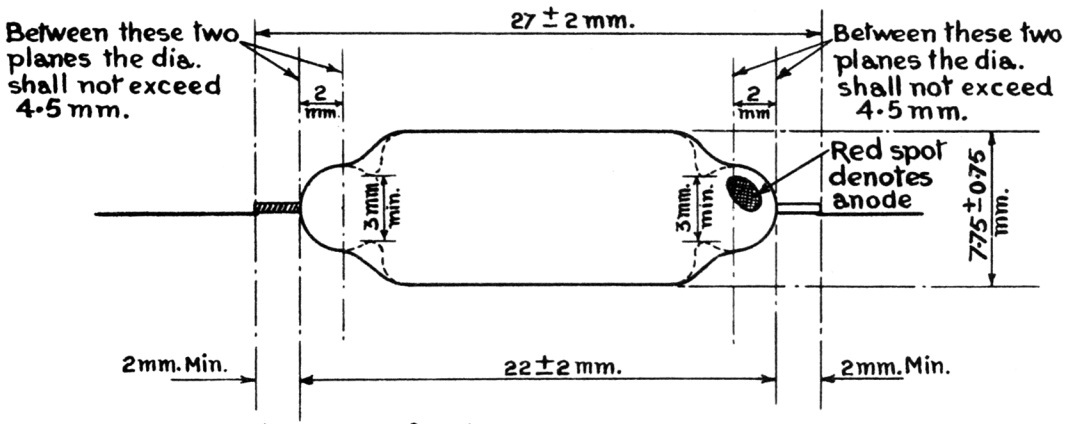
TEST CIRCUIT FOR Clause(d)

V = Voltmeter or other suitable measuring device.

The input voltage is increased until the diode strikes. At the instant after striking, the voltage remaining across the capacitor C shall not exceed 70V.

NOTE.

The insulation resistance of capacitor C in parallel with voltmeter V shall be not less than 10^9 ohms.



The leads shall be flexible 26 S.W.G. tinned wire not less than 3" in length. There shall not be excess solder on the connection of the lead to the tungsten lead-out.

The centre of the end of each tungsten lead-out shall be within 0·5 mm. of the envelope axis.

The seals shall be of reasonably uniform shape. If "necked" seals are produced as shown by dotted profile, the diameter of the neck shall be not less than 3 mm.