VALVE ELECTRONIC

| Specification MOA/CV.398 | SECURITY | | | |
|--------------------------------------|---------------|--------------|--|--|
| Dated 12.12.60. Issue 2, reprint A. | Specification | <u>Valve</u> | | |
| To be read in conjunction with K1001 | Unclassified | Unclassified | | |

| | | | indio | ates a | a change | | | |
|---|--|--|--|--------|-------------------------------|---|--|--|
| CATHODE: | Pulse modulator tetr Indirectly heated Glass, unmetallised | MARKING See K1001/4 | | | | | | |
| Heater voltage. Heater current. Max. Anode voltag Max. Negative gri Max. Peak positiv Max. Screen grid Max. Anode dissip Max. Screen grid Max. Peak anode c Capacitances Cag (max.) Cgc Cac | d voltage. e grid voltage. voltage. voltage, Ia = 0. ation. dissipation. | (V) (A) (kV) (V) (V) (kV) (W) (A) (PF) | 26 2•0 12 1•0 300 1•25 1•35 60 8 15 | | Pin 1 2 3 4 TC | BASE B4A rawing on Page 4 CONNECTIONS Electrode H G2 G1 H&C A TOP CAP rawing on page 4 DIMENSIONS rawing on page 4 | | |

NOTES

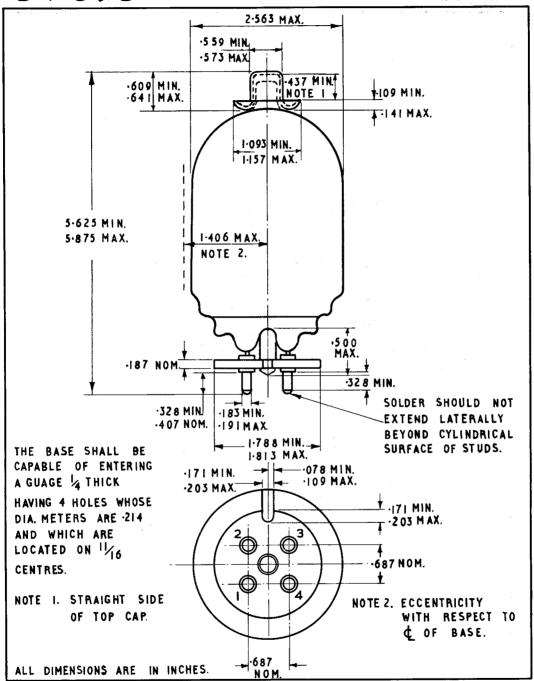
- A. The screen grid potential should not exceed 1.25kV during operation. Minimum series resistance = 20,000 ohms.
- B. For a duty cycle not greater than 0.001. With peak currents in excess of 5A the product of peak current in amperes, and pulse duration in microseconds should not exceed 30. The valve should not operate for longer than 5 microseconds in any 100 microseconds period.
- C. The nominal heater current may be either 2.0A or 1.6A.

To be performed in addition to those applicable in K1001

| | Test Conditions | | | | | Test | | Limits | | No. | V - |
|---|-----------------|------------|--------------|------------|------------------------------------|-----------------|------------|-----------------------|------------------|--------------|------|
| | Vh (V) | Va (kV) | Vg2 (kV) | Ia (mA) | Vg1 (V) | 1000 | | Min. | Max. | Tested | Note |
| a | 27 | 0 | 0 | 0 | 0 | Ih | (A) (A) | 1 • 95 1 • 44 | 2•35 1•76 | 100% or S | 3 |
| Ъ | 27 | 1 •2 | 1.0 | 50 | Adjust | Ig ₁ | (/uA) | 0 | - 40 | 100% | 1 |
| С | 27 | 1•2 | 1•0 | 50 | Adjust | Ig ₂ | (mA) | 0 | 8.0 | 100% or S | |
| đ | 27 | 1 •2 | 1.0 | - | -500 | Ig ₁ | (/uA) | 0 | -80 | 100% | |
| е | 25 | 15 | 1 •25 | - | - 800 | Ia Ig2 | (A) | 15 Neve | - r Nega | 100% tive | 2 |
| f | 25 | 15 | 1 •25 | 1.0 | Adjust | ٧g | (V) | -320 | - 700 | 100% | |
| | · | | | | Capacitances 1. Cag 2. Cgc 3. Cac | (pF) | 30 5 | 2 45 1 0 | 6 per week | | |

NOTES

- 1. Valves shall operate with constant or decreasing grid current for two minutes. Should the grid current rise it shall become constant (a rise of not greater than 5% of the maximum limit over the last one minute period of the test) or decrease within five minutes. If the grid current is not constant or dropping at the end of five minutes period the valve is acceptable provided that on continued running it reaches a maximum value which does not exceed the limit specified.
- 2. A pulse of duration 2 microseconds and repetition rate of 300-500 per sec. with a variation in amplitude over 80% of the top portion of the pulse not greater than 5% shall be applied to drive the control grid positive by 225 25V at the top of the pulse. The variation in amplitude of the output pulse shall not be greater than 10% and during the test there shall be no sustained sparking. Duration of test 2 minutes. The test circuit is shown on Page 3.
- 3. See Note C on page 1.



CV 398/2A/4