VALVE ELECTRONIC



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

| Specification MOS/CV 2103/Issue 3 | SECURITY | | | |
|--------------------------------------|---------------|--------------|--|--|
| Dated: - 9.8.51. | Specification | <u>Valve</u> | | |
| To be read in conjunction with K1001 | Restricted | Unclassified | | |

→ indicates a change

| | _ | 11. | m r ca ce | s a u | nange | | | | |
|---|---|--|------------------|--------------------|--|--------|-----------------------|--------|--|
| | TYPE OF VALVE:- Sub-miniator H. F. Pentor Directly her ENVELOPE:- Glass-urmet VX8020 | MARKING CV 2103 Date Code & Factory Identification Code | | | | | | | |
| | RATING | | Note | <u>BASE</u> B8D | | | | | |
| | Filament voltage (V) Filament current (mA) | 1.25 25 | | | CONNECTIONS | | | | |
| - | Max. anode voltage (V) | node voltage (V) 100 creen voltage (V) 100 Conductance (mA/V) 0.95 impedance (M\Omega) 0.65 current (mA) 1.9 current (mA) 0.55 | (V) 100 | | Pin | Electr | ode | | |
| | Mutual Conductance (mA/V) Anode impedance (MΩ) Anode current (mA) Screen current (mA) | | A A A B | 123456 | Internal Connection G1 No Connection -F (Sc) +F (G3) No Connection | | | * ** * | |
| | CAPACITANCES (pF) Cag (max.) Cae Cge | 0.01 C 5.0 C 2.9 C | | | A G2 DIMENSION ee drawing p | S | | | |
| | | | | Di | Dimension Min. | | Max. | | |
| | | | | A B | m.m. m.m. | | 41.2 10 .16 | 4 | |

NOTES

- A. Measured at Va = Vg2 = 70V, Vg1 = 0V
- B. Measured at Va = Vg2 = 70V.
- C. Measured with valve shielded.

A sharp bend must not be made in any valve lead closer than 1.5 mm. to the glass seal and soldered joints in the leads must not be made closer than 5.0 mm. to the seal.

TESTS
To be performed in addition to those applicable in K1001

| | T | | | - | | - | _ | | + • | • 1 | T 3.7 | T | ì |
|---|--|---------|--------------|----|--------------|----------------|------|--------|------------|------|--------|-------|---|
| | Tes | st Cand | litic | ms | | Test | | | Limits | | No. | 37-4- | |
| | | | | | - | | | | Min. | Max. | Tested | Note | l |
| | See K1001/AIII | | | | | Capacitances | | | | | | | |
| | Links to Links to Link | | | | | (Shielded)(pF) | | | | | | | |
| | H.P. L.P. | | | - | E. | | | | | | | | |
| a | 7 2 1,3,4,5, 6,8 7 1,3,4,5, 2 6,8 | | (i) Cag | | | - | 0.01 | T.A. | 1 | | | | |
| | | | -,5, | - | | (ii) | Cae | • | 4.5 | 5.5 | 6 | 1 | |
| | | | | | | | | | | | per | | |
| | 2 | 1,3,4 | -, 5, | | 7 | (iii) Cge | | | 2.4 | 3-4 | week | 1 | • |
| | Vf | Va | Vg2 | 2 | Vg1 | | | | | | | | ĺ |
| b | 1.25 | - | - | | - | If | | (mA) | 22 | 28 | 100% | | |
| c | 1.25 | 70 | 70 |) | 0 | Ia | | (mA) | 1.4 | 2.4 | 100% | | |
| đ | 1.25 | 70 | 70 |) | 0 | Ig2 | | (mA) | 0.4 | 0.7 | 100% | | , |
| е | 1.25 | 70 | 70 |) | -1. 5 | Rev.I | g1 | (pa) | - | 0.5 | 100% | | |
| f | 1.25 | 70 | 70 |) | 0 | Sur | (| (mA/V) | 0.7 | 1.2 | 100% | | • |
| g | 1.1 | 70 | 70 |) | 0 | வே | (| (mA/V) | 0.56 | - | 100% | | |
| h | 1.25 | 70 | 70 |) | -13.5 | Ia(ta | il) | (µA) | 2 | 60 | 100% | 2 | 4 |
| L | d | | | _ | 1 | | | | | | | | ı |

NOTES

- 1. Capacities measured with shield roundvalve. All should be measured at R.F.
- 2. 1 Megohm protective resistance in series

CV2103/3/2

