

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

Specification MOS/CV1336/Issue 7
 Dated:- 17.6.46.
 To be read in conjunction with K1001.

SECURITYSpecification
RestrictedValve
Restricted

—→ indicates a change

| | | | | |
|---|-------|--------------------|-------------------|-------------|
| <u>TYPE OF VALVE:-</u> H. F. Pentode | | <u>MARKING</u> | | |
| <u>CATHODE:-</u> Indirectly heated | | See K1001/4 | | |
| <u>ENVELOPE:-</u> Metallised | | | | |
| <u>PROTOTYPE:-</u> SP42 | | | | |
| <u>RATING</u> | | <u>BASE</u> | | |
| | | Note | MO 7-pin | |
| Heater voltage | 4.0 | | Pin | |
| Heater current | 0.95 | | Electrode | |
| Max. anode voltage (V) | 200 | | 1 Heater | |
| Max. screen voltage (V) | 200 | | 2 Cathode | |
| Anode current (mA) | 23 | A | 3 Anode | |
| Mutual conductance (mA/V) | 8.5 | A | 4 Screen Grid | |
| | | | 5 Suppressor Grid | |
| | | | 6 Metallising | |
| <u>CAPACITANCES</u> (pF) | | | 7 Pin omitted | |
| Cag (max.) | 0.007 | | 8 Heater | |
| Cae | 7.0 | | TC Control Grid | |
| Cge | 10.5 | | | |
| <u>NOTE</u> | | <u>TOP CAP</u> | | |
| A. Measured at $V_a = 200$, $V_{g2} = 115$, $V_{g1} = -1$. | | See K1001/AI/D 5.1 | | |
| <div style="border: 1px solid black; padding: 5px; width: fit-content;"> This valve type is obsolete and this specification is for record purposes only. </div> | | <u>DIMENSIONS</u> | | |
| | | See K1001/AI/D1 | | |
| | | <u>Dimensions</u> | <u>Min.</u> | <u>Max.</u> |
| | | A mm | - | 95 |
| B mm | - | 32 | | |
| L mm | - | 82 | | |

TESTS

To be performed in addition to those applicable in K1001.

| | Test conditions | | | | | Test | Limits | | No. tested |
|---|-----------------|-----------------|---------------------------------|-----|-----|-------------------|--------|-------|-------------|
| | | | | | | | Min. | Max. | |
| a | See K1001/AIII | | | | | CAPACITANCES (pF) | | | 1% (20) |
| | Links to H.P. | Links to L.P. | Links to E | | | | | | |
| | 3 | TC1 | 1,2,4,5, 6,7,8,9, 10,TC2. | | | | | | |
| | 3 | 1,2,4,5, 6,8 | 7,9,10, TC1,TC2 | | | | | | |
| | TC1 | 1,2,4,5, 6,8 | 3,7,9, 10,TC2 | | | (i) Cag | - | 0.007 | |
| | | | | | | (ii) Cae | 6.0 | 8.0 | |
| | | | | | | (iii) Cge | 9.0 | 12.0 | |
| b | Vh | Va | Vg2 | Vg1 | Vg3 | Ih (A) | 0.85 | 1.05 | 10% (50) |
| | 4.0 | - | - | - | - | | | | |
| c | 4.0 | 200 | 115 | 0 | 0 | Ia (mA) | 23.5 | 42.0 | 100% |
| d | 4.0 | 200 | 115 | 0 | 0 | Ig2 (mA) | - | 11.0 | 100% |
| e | 4.0 | 200 | 115 | -1 | 0 | gm (mA/V) | 6.2 | - | 100% |
| f | 4.0 | 200 | 115 | -3 | 0 | Rev.Ig1 (uA) | - | 0.5 | 100% |