

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

| | | |
|-------------------------------------------------------------------------------------------|------------------------------------|----------------------------|
| Specification MOS/CV1341/Issue 4 Dated 26.4.46 To be used in conjunction with K1001 | <u>SECURITY</u> | |
| | <u>Specification</u> Restricted | <u>Valve</u> Restricted |

—→ indicates a change

| | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--------------------------------------|-----------------|------|
| <u>TYPE OF VALVE</u> :- Screened pentode <u>CATHODE</u> :- Indirectly heated <u>ENVELOPE</u> :- Glass-unmetallised <u>PROTOTYPE</u> :- MSP4 | | | <u>MARKING</u> See K1001/4. | | |
| <u>RATING</u> | | Note | <u>BASE</u> E7 | | |
| Heater voltage (V) | 4.0 | | Pin | Electrode | |
| Heater current (A) | 1.0 | A | 1 | No connection | |
| Max. anode voltage (V) | 250 | | 2 | Control grid | |
| Max. screen voltage (V) | 100 | | 3 | Suppressor grid | |
| Mutual conductance (mA/V) | 4.0 | | 4 | Heater | |
| | | | 5 | Heater | |
| | | | 6 | Cathode | |
| | | | 7 | Screen grid | |
| <u>CAPACITANCES (pF)</u> (Max) | | | T.C. | Anode | |
| C _{ag} | 0.03 | | <u>TOP CAP</u> See K1001/AI/D5.1 | | |
| C _{ae} | 7.6 | | <u>DIMENSIONS</u> See K1001/AI/D1 | | |
| C _{ge} | 17.2 | | Dimension | Min. | Max. |
| <u>NOTES</u> A. Measured at V _a = 200, V _{g2} = 100, V _{g1} = 0 <div style="border: 1px solid black; padding: 5px; margin: 10px 0;">This valve type is obsolete and this specification is for record purposes only.</div> | | | A mm | 130 | 141 |
| | | | B mm | - | 44.5 |

TESTS

To be performed in addition to those applicable in K1001

| | Test conditions | | | | | Test | Limits | | No. tested | Notes |
|-----|-----------------|----------------|------------------------|-----|----------|-------------------------------------------------------------|--------|------|------------|-------|
| | | | | | | | Min. | Max. | | |
| a | See K1001/AIII | | | | | <u>Capacitances (pF)</u> | | | | |
| | Links to H.P. | Links to L.P. | Links to E | | | (i) Cag | - | 0.03 | T.A | |
| | TC1 | 2 | 1,3,4,5,6,7,8,9,10,TC2 | | | | | | | |
| TC1 | 3,4,5,6,7 | 1,2,8,9,10,TC2 | | | (ii) Cae | - | 7.6 | 6 | | |
| | 2 | 3,4,5,6,7 | 1,8,9,10,TC1,TC2 | | | (iii) Cge | - | 17.2 | per week | |
| b | Vh | Va | Vg2 | Vg3 | Vg1 | Ih (A) | 0.9 | 1.1 | 100% or S | |
| | 4.0 | - | - | - | - | | | | | |
| c | 4.0 | 200 | 100 | 0 | -1 | Ia (mA) | 3.0 | 8.0 | 100% | |
| d | 4.0 | 200 | 100 | 0 | -1 | Ig2 (mA) | - | 2.75 | 100% | |
| e | 4.0 | 200 | 100 | 0 | -1 | gm (mA/V) | 2.15 | 4.5 | 100% | |
| f | 4.0 | 200 | 100 | 0 | -2 | Rev Ig (uA) | - | 1.7 | 100% | |
| g | 4.0 | 4000 | 50 | 0 | Ia=25uA | Vg (C.O.) (V) | - | -25 | 5% (20) | 1 & 3 |
| h | 4.0 | 4000 | 50 | 0 | 1.0mA | Flashover test No abnormal phenomena should be apparent. | | | 5% (20) | 2 & 3 |

NOTES

- H.T. to be applied only as long as is necessary to take reading.
- During this test flashovers may be allowed to occur, providing such flashovers do not render the valve inoperative.
- The use of an approved high voltage conditioning apparatus is accepted as alternative to tests f and g.