

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

| | | |
|---|------------------------------------|----------------------------|
| Specification MOS/CV1325/Issue 3. Dated 7.1.46. To be read in conjunction with K1001. | <u>SECURITY</u> | |
| | <u>Specification</u> Restricted | <u>Valve</u> Restricted |

—> indicates a change

| | | | | | |
|---|------|----------------|---------------------------------------|-----------------|-------------|
| <u>TYPE OF VALVE:-</u> H.F. Pentode <u>CATHODE:-</u> Indirectly heated <u>ENVELOPE:-</u> Non-metallised <u>PROTOTYPE:-</u> 42 MPT | | | <u>MARKING</u> See K1001/4 | | |
| <u>RATING</u> | | | <u>BASE</u> B7 | | |
| Heater voltage (V) | 4.0 | Notes A | Pin | Electrode | |
| Heater current (A) | 2.0 | | 1 | No connection | |
| Max. Anode voltage (V) | 250 | | 2 | Control grid | |
| Max. Screen voltage (V) | 250 | | 3 | Suppressor grid | |
| Mutual Conductance (mA/V) | 8.5 | | 4 | Heater | |
| <u>CAPACITANCES (pF)</u> | | | 5 | Heater | |
| C _{ag} (max.) | 1.0 | | 6 | Cathode | |
| C _{ae} | 5.5 | | 7 | Screen grid | |
| C _{ge} | 16.0 | | T.C. | Anode | |
| <u>NOTES</u> A. Measured at $V_a = 250$; $V_{g2} = 200$, $V_{g1} = -3$. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> This valve type is obsolete and this specification is for record purposes only. </div> | | | <u>TOP CAP</u> See K1001/AI/D5.1. | | |
| | | | <u>DIMENSIONS</u> See K1001/AI/D1. | | |
| | | | <u>Dimension</u> | <u>Min.</u> | <u>Max.</u> |
| A mm | 139 | 146 | | | |
| B mm | - | 57.6 | | | |
| L mm | 123 | 130 | | | |

TESTS

To be performed in addition to those applicable in K1001.

| | Test Conditions | | | | | Test | Limits | | No. Tested |
|---|------------------|------------------|---------------------------------|--------------------|-----|-----------------------------|--------|------|----------------------|
| | | | | | | | Min. | Max. | |
| a | See K1001/AIII | | | | | <u>CAPACITANCES</u> (PF) | | | 6 per week |
| | Links to H.P. | Links to L.P. | Links to E | | | Cag | - | 1.0 | |
| | TC1 | 2 | 1,3,4,5, 6,7,8,9, 10,TC2. | | | Cae | 3.5 | 7.5 | |
| | TC1 | 3,4,5, 6,7. | 1,2,8,9, 10,TC2. | | | Cge | 14.0 | 18.0 | |
| | 2 | 3,4,5,6, 7. | 1,8,9, 10,TC1, TC2. | | | | | | |
| b | Vh | Va | Vg2 | Vg1 | Vg3 | Ih (A) | 1.8 | 2.2 | 100% or S |
| | 4.0 | - | - | - | - | | | | |
| c | 4.0 | 250 | 200 | -3 | 0 | Ia (mA) | 23 | 45 | 100% |
| d | 4.0 | 250 | 200 | -3 | 0 | Ig2 (mA) | 4 | 8 | 100% |
| e | 4.0 | 250 | 200 | -2.5 to -3.5 | 0 | gm (mA/V) | 6.8 | 10.2 | 100% |
| f | 4.0 | 250 | 200 | -3 | 0 | Rev. Ig (μ A) | - | 1.0 | 100% |