

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

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|---|------------------------------------|----------------------------|
| Specification: MOS/CV1320/Issue 4 Dated:- 19.6.46 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>MARKING</u> | | |
| <u>CATHODE:-</u> Directly heated | | See K1001/4 | | |
| <u>ENVELOPE:-</u> Glass, metallised | | | | |
| <u>PROTOTYPE:-</u> SP.2. | | | | |
| <u>RATING</u> | | Note | <u>BASE</u> B7 | |
| Filament Voltage (V) | 2.0 | A A | <u>Pin</u> <u>Electrode</u> | |
| Filament Current (A) | 0.18 | | 1 Metallising | |
| Max. Anode Voltage | 150 | | 2 Control Grid | |
| Max. Screen Voltage | 150 | | 3 Suppressor Grid | |
| Mutual Conductance (mA/V) | 1.7 | | 4 Filament | |
| Anode Impedance (MΩ) | 0.4 | | 5 Filament | |
| <u>CAPACITANCES (pF)</u> (Max.) | | | 6 No connection | |
| C _{eg} | 0.01 | | 7 Screen Grid | |
| C _{ae} | 7.5 | | T.C. Anode | |
| C _{ge} | 12.5 | | <u>TOP CAP</u> See K1001/AI/D5.1 | |
| <u>NOTES</u> | | <u>DIMENSIONS</u> See K1001/AI/D1. | | |
| A. Measured at $V_a = 150$, $V_{g2} = 150$, $V_{g1} = 0$. <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 This valve type is obsolete and this specification is for record purposes only.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>Dimension</u> | <u>Min.</u> | <u>Max.</u> |
| | | A mm | 125 | 132 |
| | | L mm | 109 | 118 |
| | | B mm | 43 | 47 |

TESTS

To be performed in addition to those applicable in K1001.

| | Test Conditions | | | | | Test | Limits | | No. tested |
|---|--|------------------|---------------------------------|----------|-----------|--------------------------|--------|------|------------|
| | | | | | | | Min. | Max. | |
| a | Instead of test 5.2 in K1001 the following test will be applied. <u>Insulation.</u> With $V_f = 2.0$ V A.C. and test voltage = 135 volts the leakage current shall be less than 1.9 microamps. (Note 1) | | | | | | | 100% | |
| b | See K1001/AIII. | | | | | <u>CAPACITANCES (pF)</u> | | | 1% (20) |
| | Links to H.P. | Links to L.F. | Links to E. | | (i) Cag | - | 0.01 | | |
| | TC1 | 2 | 1,3,4,5,6, 7,8,9,10, TC2. | | | | | | |
| | TC1 | 1,3,4,5, 6,7. | 2,8,9,10, TC2. | | (ii) Cae | - | 7.0 | | |
| | 2 | 1,3,4,5, 6,7. | 8,9,10, TC1,TC2. | | (iii) Cge | - | 12.0 | | |
| c | Vf | Va | Vg3 | Vg2 | Vg1 | If (A) | 0.18 | 0.22 | 100% |
| | 2.0 | | | | | | | | |
| d | 2.0 AC | 20 AC | 20 AC | 20 AC | 20 AC | Ie (mA) | 12 | - | 100% |
| e | 2.0 AC | 135 | 0 | 135 | 0 | Ia (mA) | 3.05 | 6.85 | 100% |
| f | 2.0 AC | 135 | 0 | 135 | -1.75 | Ia (mA) | 0.6 | 2.6 | 100% |
| g | 2.0 AC | 135 | 0 | 135 | -7 | Ia (Note 2) (uA) | - | 45 | 100% |
| h | 2.0 | 135 | 0 | 135 | -1.75 | Rev. Ig (uA) | 0.6 | - | 100% |

NOTES

1. Protective resistance 10 megohms used with 10 microammeter.
2. 1 Megohm in anode circuit.