

| | | |
|--|--------------------------------------|------------------------------|
| Specification MOSA/CVI598 Issue 5 Dated 30.7.53 To be read in conjunction with K1001 | <u>SECURITY</u> | |
| | <u>Specification</u> UNCLASSIFIED | <u>Valve</u> UNCLASSIFIED |

—————> Indicates a change

| | | | | |
|--|-------------------|---|--------------|-----------------|
| TYPE OF VALVE - Variable - μ H.F. Pentode CATHODE - Indirectly heated ENVELOPE - Glass, unmetallised PROTOTYPE - 9D2 (VR106A) | | <u>MARKING</u> See K1001/4 | | |
| | | <u>BASE</u> B7 See K.1001/ATV/D5.3. | | |
| <u>RATING</u> | | <u>CONNECTIONS</u> | | |
| Heater Voltage | (V) 13 | Note A A A | Pin | Electrode |
| Heater Current | (A) 0.15 | | 1 | No connection |
| Max. Anode Voltage | (V) 250 | | 2 | Anode |
| Max. Screen Voltage | (V) 125 | | 3 | Suppressor Grid |
| Mutual Conductance | (mA/V) 1.65 | | 4 | Heater |
| Anode Impedance | (M Ω) 0.6 | | 5 | Heater |
| Amplification Factor | 1000 | | 6 | Cathode |
| | | 7 | Screen Grid | |
| | | T.C. | Control Grid | |
| <u>CAPACITANCES (pF)</u> | | <u>TOP GAP</u> See K1001/A1/D5.1 | | |
| C _{ag} (Max.) | 0.025 | <u>DIMENSIONS</u> See K1001/A1/D1 | | |
| C _{ae} | 13 | | | |
| C _{ge} | 4.7 | | | |
| | | Dimensions | Min. | Max. |
| | | A mm. | 108 | 117 |
| | | B mm. | - | 39 |
| | | C mm. | - | 35 |
| <u>NOTES</u> | | | | |
| A. Measured at V _a = 250, V _{g2} = 125, V _{g1} = -3 | | | | |

To be performed in addition to those applicable in K1001

| Test Conditions | | | | | | Test | Limits | | No. Tested |
|---------------------------------|---------------|-----------------|-----|-----|-----|------------------------|--------|-------|------------|
| | | | | | | | Min. | Max. | |
| a | | | | | | CAPACITANCES (pF) | | | 6 per week |
| See K1001/AIII | | | | | | | | | |
| Links to H.P. | Links to L.P. | Links to E. | | | | | | | |
| 2 | 1,3,4,5,6,7 | 8,9,10, TC1,TC2 | | | | | | | |
| T.C.1 | 1,3,4,5,6,7 | 2,8,9,10,TC2 | | | | 1. Cae | 11.5 | 14.5 | |
| With valve screened | | | | | | 2. Cge | 4.2 | 5.2 | |
| | | | | | | 3. Cag | - | 0.025 | T.A. |
| | | | | | | | | | |
| | Vh | Va | Vg2 | Vg1 | Vg3 | | | | |
| b | 13.0 | 0 | 0 | 0 | 0 | Ih (A) | 0.135 | 0.165 | 100% or S |
| c | 13.0 | 250 | 125 | -3 | 0 | Ia (mA) | 6.0 | 13.0 | 100% |
| d | 13.0 | 250 | 125 | -3 | 0 | Ig2 (mA) | 1.9 | 3.3 | 100% or S |
| e | 13.0 | 250 | 125 | -3 | 0 | gm (mA/V) | 1.3 | 2.0 | 100% |
| Peak grid swing $\pm 0.5V$ Max. | | | | | | | | | |
| f | 13.0 | 250 | 125 | -3 | 0 | Reverse Ig (μA) | - | 2.0 | 100% |
| g | 13.0 | 250 | 125 | -30 | 0 | Tail Ia (mA) | - | 1.0 | 100% |
| h | 13.0 | 30 | 30 | 30 | 30 | Ic (mA) | 50 | - | 100% |