

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

(NR78/6C5G)

| | | |
|--|------------------------------------|----------------------------|
| Specification MOS/CV581/Issue 3 Dated 8.3.46. 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> Detector Amplifier Triode | | | <u>MARKING</u> | | |
| <u>CATHODE:-</u> Indirectly heated | | | See K1001/4 | | |
| <u>ENVELOPE:-</u> Glass-ummatalised | | | Additional marking:- | | |
| <u>PROTOTYPE:-</u> 6C5G | | | 6C5G | | |
| <u>RATING</u> | | | Note | <u>BASE</u> I O | |
| Heater voltage | (V) | 6.3 | A A A | Pin | Electrode |
| Heater current | (A) | 0.3 | | 1 | Internal Shield |
| Max. Anode volts | (V) | 300 | | 2 | Heater |
| Max. Anode dissipation | (W) | 2.5 | | 3 | Anode |
| Anode current | (mA) | 8.0 | | 4 | Pin omitted |
| Mutual conductance | (mA/V) | 2.0 | | 5 | Control grid |
| Anode impedance | (Ω) | 10,000 | | 6 | Pin omitted |
| | | | | 7 | Heater |
| <u>CAPACITANCES (pF)</u> | | | 8 | Cathode | |
| Cag | | 2.2 | <u>DIMENSIONS</u> | | |
| Cae | | 12.0 | See K1001/AI/D1 | | |
| Cge | | 4.4 | | | |
| <u>NOTES</u> | | | <u>Dimensions</u> | | <u>Min.</u> |
| A. Measured at $V_a = 250$, $V_g = -8$ | | | A mm | | - |
| | | | B mm | | - |
| | | | | | <u>Max.</u> |
| | | | | | 108 |
| | | | | | 40 |

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 (pF)</u> | | | |
| | Links to H.P. | Links to L.P. | Links to E. | (i) Cag | 2.0 | 2.4 | 6 |
| | 3 | 5 | 1,2,4,6,7,8,9,10, TC1, TC2. | | | | |
| | 3 | 1,2,7,8. | 4,5,6,9,10, TC1, TC2. | | | | |
| | 5 | 1,2,7,8. | 3,4,6,9,10, TC1, TC2. | (iii) Cge | 3.6 | 5.2 | week |
| b | Vh | Va | Vg | Ih (A) | 0.27 | 0.33 | 100% or S |
| | 6.3 | - | - | | | | |
| c | 6.3 | 250 | -8 | Ia (mA) | 5.5 | 11.5 | 100% |
| d | 6.3 | 250 | -8 | gm (mA/V) | 1.65 | 2.35 | 100% |
| e | 6.3 | 250 | -8 | Rev. Ig (uA) | - | 1.0 | 100% |
| f | 6.3 | 250 | -15 | Ia (mA) | - | 1.1 | 10% |