

VALVE ELECTRONIC

CV 1698

GENERAL POST OFFICE: E-IN-C (S)

(POVT 148)

| | | |
|--|------------------------------------|----------------------------|
| Specification: G. P. O./CV 1698/Issue 1 Dated: 30-8-46 To be read in conjunction with K 1001 | <u>SECURITY</u> | |
| | <u>Specification</u> Restricted | <u>Valve</u> Restricted |

—————> indicates a change

| | | | | | |
|--|--------|------|---------------------------------------|---------------|------|
| <u>TYPE OF VALVE:</u> Tetrode <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Unmetallised glass <u>PROTOTYPE:</u> A 819 | | | <u>MARKING</u> See K 1001/4 | | |
| | | | <u>BASE</u> British 7-pin (B7) | | |
| <u>RATING</u> | | Note | <u>CONNECTIONS</u> | | |
| | | | Pin | Electrode | |
| Heater current | (A) | 1.4 | 1 | No connection | |
| Nominal heater voltage | (V) | 3.33 | 2 | Anode | |
| Max. anode voltage | (V) | 250 | 3 | No connection | |
| Max. screen voltage | (V) | 250 | 4 | Heater | |
| Mutual conductance | (mA/V) | 4.6 | 5 | Heater | |
| | | | 6 | Cathode | |
| | | | 7 | G2 | |
| | | | T.C. | G1 | |
| | | | <u>TOP CAP</u> See K 1001/A1/D5.1 | | |
| <u>CAPACITANCES (pF)</u> | | | <u>DIMENSIONS</u> See K 1001/A1/D4 | | |
| C _{ag} | (max) | 0.05 | Dimension | Min. | Max. |
| C _{ae} | (max) | 12.0 | A (mm) | - | 120 |
| C _{ge} | (max) | 17.0 | B (mm) | - | 50 |
| <u>NOTE</u> | | | | | |
| A. Measured with $V_a = V_{g2} = 120$, and $I_a = 2.5$ mA. | | | | | |

TESTS

To be performed in addition to those applicable in K 1001

| TEST CONDITIONS | | | | | | TEST | LIMITS | | No. Tested | Note |
|------------------|--------------|---------------|------------------------|-----|--------|--------------------------|--------|------|------------|------|
| | | | | | | | Min. | Max. | | |
| See K 1001/A III | | | | | | <u>CAPACITANCES (pF)</u> | | | | |
| (a) | Links to H.E | Links to L.P. | Links to E | | | | | | | |
| | 2 | TC1 | 1,3,4,5,6,7,8,9,10,TC2 | | | (i) Cag | - | 0.05 | 6 per week | |
| | 2 | 4,5,6,7, | 1,3,8,9,10,TC1, TC2 | | | (ii) Cas | - | 12.0 | 6 per week | |
| | T.C.1 | 4,5,6,7 | 1,2,3,8,9,10,TC2 | | | (iii) Cge | - | 17.0 | 6 per week | |
| | Ih | Va | Vg1 | Vg2 | Ia(mA) | | | | | |
| (b) | 1.4 | - | - | - | - | Vh (V) | 3.1 | 3.57 | 100% | |
| (c) | 1.4 | 120 | Read | 120 | 2.5 | Vg1 (V) | -1.2 | -1.9 | 100% | |
| (d) | 1.4 | 120 | Adjust | 120 | 2.5 | Ig2 (mA) | 0.52 | 0.95 | 100% | |
| (e) | 1.4 | 120 | Adjust | 120 | 2.5 | gm (mA/V) | 3.45 | 5.75 | 100% | |
| (f) | 1.4 | 120 | -2 | 120 | - | Reverse Ig (μA) | - | 0.25 | 100% | |
| | | | | | | | | | | |