

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

|                                      |                      |              |
|--------------------------------------|----------------------|--------------|
| Specification MOS/CV1313/Issue 5     | <u>SECURITY</u>      |              |
| Dated 6.3.46.                        | <u>Specification</u> | <u>Valve</u> |
| To be read in conjunction with K1001 | Restricted           | Restricted   |

→ indicates a change

|                                                                                            |      |           |                   |                  |      |
|--------------------------------------------------------------------------------------------|------|-----------|-------------------|------------------|------|
| <u>TYPE OF VALVE:-</u> Triode                                                              |      |           | <u>MARKING</u>    |                  |      |
| <u>CATHODE:-</u> Indirectly heated                                                         |      |           | See K1001/4       |                  |      |
| <u>ENVELOPE:-</u> Metallised                                                               |      |           |                   |                  |      |
| <u>PROTOTYPE:-</u> 220 L.F.                                                                |      |           |                   |                  |      |
| <u>RATING</u>                                                                              |      | Note      | <u>BASE</u><br>B5 |                  |      |
|                                                                                            |      |           |                   |                  |      |
| Heater volts                                                                               | 2.0  | A         | <u>Pin</u>        | <u>Electrode</u> |      |
| Heater current (A)                                                                         | 0.21 |           | 1                 | Anode            |      |
| Max. anode volts                                                                           | 150  |           | 2                 | Control Grid     |      |
| Mutual conductance (mA/V)                                                                  | 1.7  |           | 3                 | Heater           |      |
| Amplification factor                                                                       | 20   |           | 4                 | Heater           |      |
|                                                                                            |      |           | 5                 | Cathode          |      |
| <u>CAPACITANCES (pF)</u>                                                                   |      |           | <u>DIMENSIONS</u> |                  |      |
| Cag                                                                                        | 1.8  |           | See K1001/AI/D1   |                  |      |
| Cae                                                                                        | 4.0  |           |                   |                  |      |
| Cge                                                                                        | 3.4  |           |                   |                  |      |
| <u>NOTES</u>                                                                               |      | Dimension |                   | Min.             | Max. |
| A. Measured at $V_a = 100V, V_g = 0V$                                                      |      | A mm      |                   | 90               | 97   |
|                                                                                            |      | B mm      |                   | -                | 31   |
|                                                                                            |      | L mm      |                   | 75               | 81   |
| <div>This valve type is obsolete and this specification is for record purposes only.</div> |      |           |                   |                  |      |

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> |        |      | 6<br><br>per<br><br>week |
|   | Links to<br>H.P.                                                                                              | Links to<br>L.P. | Links to<br>E.                   | (pF)                |        |      |                          |
|   | 1                                                                                                             | 2                | 3,4,5,6,7,<br>8,9,10,TC,<br>TC2. | (i) Cag             | 1.4    | 2.2  |                          |
|   | 1                                                                                                             | 3,4,5            | 2,6,7,8,9,<br>10,TC1,TC2         | (ii) Cae            | 3.0    | 5.0  |                          |
|   | 2                                                                                                             | 3,4,5            | 1,6,7,8,9<br>10,TG,TC2           | (iii) Cge           | 2.7    | 4.1  |                          |
| b | Vh                                                                                                            | Va               | Vgl                              | Th (A)              | 0.19   | 0.23 | 100%<br>or S             |
|   | 2.0                                                                                                           | -                | -                                |                     |        |      |                          |
| c | 2.0                                                                                                           | 100              | 0                                | Ia (mA)             | 5.0    | 10.0 | 100%                     |
| d | 2.0                                                                                                           | 100              | 0 to - 1                         | gm (mA/V)           | 1.4    | 2.0  | 100%                     |
| e | 2.0                                                                                                           | 100              | -1                               | Rev. Ig. (uA)       | -      | 1.0  | 100%                     |
| f | Heater-cathode insulation. K1001/5.3 shall apply except that applied voltage shall be not less than 30 volts. |                  |                                  |                     |        |      |                          |