

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

|                                      |                      |              |
|--------------------------------------|----------------------|--------------|
| Specification MOS/CV585/Issue 4      | <u>SECURITY</u>      |              |
| Dated 8.3.46                         | <u>Specification</u> | <u>Valve</u> |
| To be used in conjunction with K1001 | Restricted           | Restricted   |

—→ indicates a change

|                                      |  |  |                      |     |              |                  |
|--------------------------------------|--|--|----------------------|-----|--------------|------------------|
| <u>TYPE OF VALVE:-</u> H.F. Pentode  |  |  | <u>MARKING</u>       |     |              |                  |
| <u>CATHODE:-</u> Indirectly heated   |  |  | See K1001/4          |     |              |                  |
| <u>ENVELOPE:-</u> Glass-unmetallised |  |  | Additional marking:- |     |              |                  |
| <u>PROTOTYPE:-</u> 606               |  |  | 606                  |     |              |                  |
| <u>RATING</u>                        |  |  | <u>BASE</u>          |     |              |                  |
|                                      |  |  | USS6                 |     |              |                  |
|                                      |  |  | Note                 |     |              |                  |
| Heater voltage (V)                   |  |  | 6.3                  | A   | <u>Pin</u>   | <u>Electrode</u> |
| Heater current (A)                   |  |  | 0.3                  |     | 1            | Heater           |
| Max. anode voltage (V)               |  |  | 250                  |     | 2            | Anode            |
| Max. screen voltage (V)              |  |  | 100                  |     | 3            | Screen Grid      |
| Mutual conductance (mA/V)            |  |  | 1.25                 |     | 4            | Suppressor Grid  |
|                                      |  |  |                      |     | 5            | Cathode          |
| <u>CAPACITANCES</u> (pF)             |  |  |                      | 6   | Heater       |                  |
| Cag (max.)                           |  |  | 0.01                 | T.C | Control Grid |                  |
| Cae                                  |  |  | 6.5                  |     |              |                  |
| Cge                                  |  |  | 5.0                  |     |              |                  |
| <u>NOTES</u>                         |  |  | <u>TOP CAP</u>       |     |              |                  |
| A. Measured at Va = 250              |  |  | See K1001/AI/D5.1    |     |              |                  |
| Vg2 = 100                            |  |  |                      |     |              |                  |
| Vg1 = -3                             |  |  | <u>DIMENSIONS</u>    |     |              |                  |
|                                      |  |  | See K1001/AI/D1      |     |              |                  |
|                                      |  |  | <u>Dimension</u>     |     | <u>Min.</u>  | <u>Max.</u>      |
|                                      |  |  | A mm                 |     | 119          | 126              |
|                                      |  |  | B mm                 |     | -            | 40               |

TESTS

To be performed in addition to those applicable in K1001

|   | Test Conditions  |                  |                                 |      |     | Test                | Limits |      | No.<br>Tested     |
|---|------------------|------------------|---------------------------------|------|-----|---------------------|--------|------|-------------------|
|   |                  |                  |                                 |      |     |                     | Min.   | Max. |                   |
| a | See K1001/AIII   |                  |                                 |      |     | <u>CAPACITANCES</u> |        |      |                   |
|   | Links to<br>H.P. | Links<br>to L.P. | Links to<br>E                   |      |     | (pF)                |        |      |                   |
|   | 2                | TC1              | 1,3,4,5,6,<br>7,8,9,10,<br>TC2. |      |     | (i) Cag             | -      | 0.01 | T.A               |
|   | 2                | 1,3,4,5,<br>6.   | 7,8,9,10,<br>TC1,TC2.           |      |     | (ii) Cae            | 5.5    | 7.5  | 6<br>per.<br>week |
|   | TC1              | 1,3,4,5,<br>6.   | 2,7,8,9,<br>10,TC2              |      |     | (iii)Cge            | 4.0    | 6.0  |                   |
| b | Vh               | Va               | Vg2                             | Vg1  | Vg3 | Ih (A)              | 0.27   | 0.33 | 100%<br>or<br>S   |
|   | 6.3              | -                | -                               | -    | -   |                     |        |      |                   |
| c | 6.3              | 250              | 100                             | -3   | 0   | Ia (mA)             | 1.4    | 3.3  | 100%              |
| d | 6.3              | 250              | 100                             | -3   | 0   | Ig2 (mA)            | -      | 1.0  | 100%              |
| e | 6.3              | 250              | 100                             | -3   | 0   | gm (mA/V)           | 1.0    | 1.4  | 100%              |
| f | 6.3              | 250              | 100                             | -3   | 0   | Rev. Ig1 (uA)       | -      | 1.0  | 100%              |
| g | 6.3              | 250              | 100                             | -7.5 | 0   | Ia (mA)             | -      | 0.1  | 100%              |