

|                                                                                                |                                    |                            |
|------------------------------------------------------------------------------------------------|------------------------------------|----------------------------|
| Specification MAP/CVI584/Issue 4<br>Dated 10.3.47.<br>To be read in conjunction with<br>K1001. | <u>SECURITY</u>                    |                            |
|                                                                                                | <u>Specification</u><br>RESTRICTED | <u>Valve</u><br>RESTRICTED |

—————> Indicates a change

|                                                                |        |   |      |                                      |  |      |      |
|----------------------------------------------------------------|--------|---|------|--------------------------------------|--|------|------|
| <u>TYPE OF VALVE</u> - Triode                                  |        |   |      | <u>MARKING</u><br>See K1001/4        |  |      |      |
| <u>CATHODE</u> - Indirectly heated                             |        |   |      |                                      |  |      |      |
| <u>ENVELOPE</u> - Glass - metallised                           |        |   |      |                                      |  |      |      |
| <u>RATING</u>                                                  |        |   | Note | <u>BASE</u><br>B5                    |  |      |      |
|                                                                |        |   |      |                                      |  |      |      |
| Heater Voltage (V)                                             | 4.0    |   |      |                                      |  |      |      |
| Heater Current (A)                                             | 1.0    |   |      |                                      |  |      |      |
| Max. Anode Voltage (V)                                         | 1400   |   |      |                                      |  |      |      |
| Max. Anode Dissipation (W)                                     | 3.5    |   |      |                                      |  |      |      |
| Max. Cathode Current (mA)                                      | 25.0   |   |      |                                      |  |      |      |
| Max. Grid Resistance (MΩ)                                      | 2.0    |   |      |                                      |  |      |      |
| Max. Peak Cathode Current (mA)                                 | 50.0   |   |      |                                      |  |      |      |
| Mutual Conductance (mA/V)                                      | 3.1    | A |      |                                      |  |      |      |
| Amplification Factor                                           | 45.0   | A |      |                                      |  |      |      |
| Anode Impedance (Ω)                                            | 14,500 | A |      |                                      |  |      |      |
| <u>NOTES</u>                                                   |        |   |      | <u>DIMENSIONS</u><br>See K1001/AI/D1 |  |      |      |
| A. $V_a = 200V.$ , $V_g = -2.5V.$ ,<br>$I_a = 5.4 \text{ mA.}$ |        |   |      | Dimension                            |  | Min. | Max. |
|                                                                |        |   |      | A (mm)                               |  | -    | 117  |
|                                                                |        |   |      | B (mm)                               |  | -    | 45   |

To be performed in addition to those applicable in K1001.

|   | Test Conditions |                                      |      |        | Test                                                                                                               | Limits |      | No.<br>Tested |
|---|-----------------|--------------------------------------|------|--------|--------------------------------------------------------------------------------------------------------------------|--------|------|---------------|
|   | Vh              | Va                                   | Vg   | Ia(mA) |                                                                                                                    | Min.   | Max. |               |
| a | 4.0             | 0                                    | 0    | 0      | Ih (A)                                                                                                             | 0.9    | 1.1  | 100%<br>or S  |
| b | 4.0             | 200                                  | -2.5 | -      | Ia (mA)                                                                                                            | 3.8    | 7.0  | 100%          |
| c | 4.0             | 200                                  | -2.5 | -      | gm (mA/V)                                                                                                          | 2.5    | 3.7  | 100%          |
|   |                 | Peak grid swing $\pm 0.5V$ .<br>max. |      |        |                                                                                                                    |        |      |               |
| d | 4.0             | 200                                  | -2.5 | -      | Reverse Ig ( $\mu A$ )                                                                                             | -      | 1.0  | 100%          |
| e | 4.0             | 200                                  | -2.5 | -      | $\mu$                                                                                                              | 38.0   | 52.0 | 100%<br>or S  |
| f | 4.0             | 1400                                 | -    | 2.0    | Valve to be run for one<br>minute during which period<br>there shall be no signs<br>of softness or break-<br>down. |        |      | 100%          |