

Specification MAP/CV1579/Issue 7  
Dated 7.8.47.  
To be read in conjunction with K1001.

SECURITY

Specification  
RESTRICTED

Valve  
RESTRICTED

—————> Indicates a change

|                                                                                                                                                           |      |      |                                                  |                 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------|------|--------------------------------------------------|-----------------|
| <u>TYPE OF VALVE</u> - Acorn Pentode<br><u>CATHODE</u> - Indirectly heated<br><u>ENVELOPE</u> - Glass-unmetallised<br><u>PROTOTYPES</u> - ZA2, 954, 4672. |      |      | <u>MARKING</u><br><br>See K1001/4                |                 |
| <u>RATING</u>                                                                                                                                             |      | Note | <u>BASE</u><br>None<br>All pins are to be plated |                 |
| Heater Voltage (V)                                                                                                                                        | 6.3  |      | Pin                                              | Electrode       |
| Heater Current (A)                                                                                                                                        | 0.15 | A    | 1                                                | Heater          |
| Max. Anode Voltage (V)                                                                                                                                    | 250  |      | 2                                                | Screen grid     |
| Max. Screen Voltage (V)                                                                                                                                   | 150  |      | 3                                                | Suppressor grid |
| Max. Anode Dissipation (W)                                                                                                                                | 0.5  |      | 4                                                | Heater          |
| Max. Screen Dissipation (W)                                                                                                                               | 0.1  |      | 5                                                | Cathode         |
| Mutual Conductance (mA/V)                                                                                                                                 | 1.4  | A    | Top Wire                                         | Anode           |
| Anode Impedance (M $\Omega$ )                                                                                                                             | 1.5  | A    | Bottom Wire                                      | Control grid    |
| <u>CAPACITANCES (pF)</u>                                                                                                                                  |      |      | <u>DIMENSIONS</u>                                |                 |
| C <sub>ae</sub>                                                                                                                                           | 3.0  |      | See K1001/AI/D4.2.2.                             |                 |
| C <sub>ge</sub>                                                                                                                                           | 3.0  |      |                                                  |                 |
| C <sub>ag</sub> (max.)                                                                                                                                    | 0.01 |      |                                                  |                 |

NOTE

A. At  $V_a = 250$ ,  $V_{g2} = 100$ ,  $V_{g3} = 0$ ,  $V_{g1} = -3.0$ .

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> |        |       | 6 per week |      |
|   | Links to H.P.                    | Links to L.P. | Links to E.            |     |       |                          |        |       |            |      |
|   | TC1                              | 1,2,3,4,5     | 6,7,8,9,10,TC2         | Cae | 2.4   |                          |        |       |            | 3.3  |
|   | 6                                | 1,2,3,4,5     | 7,8,9,10,TC1,TC2       | Cge | 2.5   |                          |        |       |            | 3.5  |
|   | TC1                              | 6             | 1,2,3,4,5,7,8,9,10,TC2 | Cag | -     |                          |        |       |            | 0.01 |
| b | Vh                               | Va            | Vg3                    | Vg2 | Vg1   | Ih (A)                   | 0.135  | 0.165 | 100% or S  |      |
|   | 6.3                              | 0             | 0                      | 0   | 0     |                          |        |       |            |      |
| c | 6.3                              | 250           | 0                      | 100 | -3.0  | Ia (mA)                  | 1.0    | 3.0   | 100%       |      |
| d | 6.3                              | 250           | 0                      | 100 | -3.0  | gm (mA/V)                | 1.0    | 1.8   | 100%       |      |
|   | Peak grid swing $\pm 0.5V.$ max. |               |                        |     |       |                          |        |       |            |      |
| e | 6.3                              | 250           | 0                      | 100 | -3.0  | Ig2 (mA)                 | 0.3    | 1.1   | 100% or S  |      |
| f | 6.3                              | 250           | 0                      | 100 | -3.0  | Reverse Ig1 ( $\mu A$ )  | -      | 1.5   | 100%       |      |
| g | 6.3                              | 250           | 0                      | 100 | -10.0 | Ia (mA)                  | -      | 0.12  | 100%       |      |