

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

|                                                                                             |                      |              |
|---------------------------------------------------------------------------------------------|----------------------|--------------|
| Specification MOS/CV 1326/Issue 4.<br>Dated 15.1.46<br>To be read in conjunction with K1001 | <u>SECURITY</u>      |              |
|                                                                                             | <u>Specification</u> | <u>Valve</u> |
|                                                                                             | Restricted           | Restricted ← |

→ indicates a change

|                                                                                                                                           |        |     |   |                   |                  |             |  |
|-------------------------------------------------------------------------------------------------------------------------------------------|--------|-----|---|-------------------|------------------|-------------|--|
| <u>TYPE OF VALVE:-</u> Beam Power Amplifier                                                                                               |        |     |   |                   | <u>MARKING</u>   |             |  |
| <u>CATHODE:-</u> Indirectly heated                                                                                                        |        |     |   |                   | See K1001/4.     |             |  |
| <u>ENVELOPE:-</u> Non-metallised                                                                                                          |        |     |   |                   |                  |             |  |
| <u>PROTOTYPE:-</u> AC4/Pen.                                                                                                               |        |     |   |                   |                  |             |  |
| <u>RATING</u>                                                                                                                             |        |     |   | <u>Notes</u>      | <u>BASE</u>      |             |  |
|                                                                                                                                           |        |     |   |                   | B7               |             |  |
| Heater voltage                                                                                                                            | (V)    | 4.0 | A | <u>Pin</u>        | <u>Electrode</u> |             |  |
| Heater current                                                                                                                            | (A)    | 2.1 |   | 1                 | No connection    |             |  |
| Max. Anode voltage                                                                                                                        | (V)    | 250 |   | 2                 | Control Grid     |             |  |
| Max. Screen voltage                                                                                                                       | (V)    | 250 |   | 3                 | Screen Grid      |             |  |
| Max. Anode dissipation                                                                                                                    | (W)    | 16  |   | 4                 | Heater           |             |  |
| Mutual Conductance                                                                                                                        | (mA/V) | 11  |   | 5                 | Heater           |             |  |
|                                                                                                                                           |        |     |   | 6                 | Cathode          |             |  |
|                                                                                                                                           |        |     |   | 7                 | Anode            |             |  |
| <u>NOTES</u>                                                                                                                              |        |     |   | <u>DIMENSIONS</u> |                  |             |  |
| A. Measured at $V_a = 250$ , $V_{g2} = 250$<br>$V_{g1} = -10$ .                                                                           |        |     |   | See K1001/AI/D1   |                  |             |  |
| <div style="border: 1px solid black; padding: 5px;">This valve type is obsolete and this specification is for record purposes only.</div> |        |     |   | <u>Dimension</u>  | <u>Min.</u>      | <u>Max.</u> |  |
|                                                                                                                                           |        |     |   | A mm              | 122              | 129         |  |
|                                                                                                                                           |        |     |   | B mm              | -                | 54          |  |
|                                                                                                                                           |        |     |   | L mm              | 106              | 113         |  |

TESTS

To be performed in addition to those applicable in K1001

|   | Test Conditions |     |     |                     |           | Test              | Limits |                 | No.<br>Tested |
|---|-----------------|-----|-----|---------------------|-----------|-------------------|--------|-----------------|---------------|
|   | Vh              | Va  | Vg2 | Vg1                 | Ia        |                   | Min.   | Max.            |               |
| a | 4.0             | -   | -   | -                   | -         | Ih (A)            | 1.9    | 2.3             | 100%<br>or S  |
| b | 4.0             | 250 | 250 | -8.5                | -         | Ia (mA)           | 44     | 88              | 100%          |
| c | 4.0             | 250 | 250 | -8.5                | -         | Ig2 (mA)          | -      | 25%<br>of<br>Ia | 100%          |
| d | 4.0             | 250 | 250 | -8.5<br>to<br>-10.5 | -         | gm (mA/V)         | 8.25   | 13.75           | 100%          |
| e | 4.0             | 250 | 250 | -8.5                | -         | Rev.Ig ( $\mu$ A) | -      | 0.5             | 100%          |
| f | 4.0             | 250 | 250 | Read                | 1.0<br>mA | Vg1 (V)           | -      | -25             | 1%<br>(20)    |