

| | | |
|--|------------------------------------|----------------------------|
| Specification MAP/CV1581/Issue 4 Dated 7.1.46. To be read in conjunction with K1001. | <u>SECURITY</u> | |
| | <u>Specification</u> RESTRICTED | <u>Valve</u> RESTRICTED |

→ Indicates a change

| | | | | |
|--|------|--|-------------------------|------|
| <u>TYPE OF VALVE:-</u> Triode - pentode or triode - hexode. <u>CATHODE:-</u> Indirectly heated. <u>ENVELOPE:-</u> Glass-urmetallised. <u>PROTOTYPE:-</u> ECH35 (urmetallised), E1341. | | <u>MARKING</u> See K1001/4. | | |
| <u>RATING</u> | | <u>BASE</u> I.O. | | |
| Heater Voltage | (V) | 6.3 | Note | |
| Heater Current | (A) | 0.3 | | |
| | | Pin | Electrode | |
| | | 1 | No connection | |
| | | 2 | Heater | |
| | | 3 | Hexode or pentode Anode | |
| | | 4 | Screen grid (G2,4) | |
| | | 5 | Oscillator Grid (GO,3) | |
| | | 6 | Oscillator Anode (AO) | |
| | | 7 | Heater | |
| | | 8 | Cathode | |
| | | T.C. | Signal Grid (G1) | |
| <u>NOTE</u> A:- This specification covers valves suitable as loop switchers in a particular equipment. | | <u>PLUG TOP CAP</u> See K1001/AI/D5.2 | | |
| | | <u>DIMENSIONS</u> See K1001/AI/D1 | | |
| | | Dimension | Min. | Max. |
| | | A | (mm) | 101 |
| B | (mm) | - | 114 | |
| | | | 39.6 | |

CV1581

TESTS

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To be performed in addition to those applicable in K1001

| | Test Conditions | | | | | | Test | Limits | | No. Tested | Note |
|--|-----------------|--|-------|-------------------------|---|-------|------------------------------|--------|------|------------|------|
| | Vh | Va | Vg2,4 | Vg1 | Vao | Vgo,3 | | Min. | Max. | | |
| a | 6.3 | 0 | 0 | 0 | 0 | 0 | Ih (A) | - | 0.33 | 100% or S | |
| The following tests are to be applied to valves based on Mullard ECH36 | | | | | | | | | | | |
| b1 | 6.3 | 300 | 100 | -4 | 150 | -3 | Ia (mA) | 1.3 | 3.2 | 100% | |
| c1 | 6.3 | 300 | 100 | 0 | 150 | -3 | Ia (mA) | 7.0 | 13.0 | 100% | |
| d1 | 6.3 | 300 | 100 | -30 | 150 | -3 | Ia (μ A) | - | 90 | 100% | 1 |
| e1 | 6.3 | Strapped. 30V. R.M.S. at 50cps applied | | | 0 | 0 | Hexode Emission Current (mA) | 45 | - | 100% | |
| f1 | 6.3 | 0 | 0 | 0 | Strapped. 30V. R.M.S. at 50cps applied. | | Triode Emission Current (mA) | 30 | - | 100% | |
| g1 | 6.3 | 300 | 100 | 0 | 150 | -13 | Ia (mA) | - | 6.0 | 100% | |
| h1 | 6.3 | 300 | 100 | Cathode resistor of 135 | 150 | -3 | Ig2,4 | 1.35 | 2.65 | 100% | |
| j1 | 6.3 | 300 | 100 | 0 | 150 | -3 | Iao (mA) | 5.5 | 13.5 | 100% | |
| k1 | 6.3 | 300 | 100 | 0 | 150 | -13 | Iao (mA) | - | 1.5 | 100% | |
| m1 | 6.3 | 300 | 100 | -3 | 150 | -3 | Reverse Ig1 (μ A) | - | 0.6 | 100% | |
| n1 | 6.3 | 300 | 100 | -3 | 150 | -3 | Reverse Igo,3 (μ A) | - | 1.1 | 100% | |
| The following tests are to be applied to valves based on M.O.V. E1341 | | | | | | | | | | | |
| b2 | 6.3 | 250 | 100 | -3 | 100 | -3 | Ia (mA) | 2.3 | 4.3 | 100% | |
| c2 | 6.3 | Peak grid swing ± 0.5 volt max. | | | 100 | -3 | Pentode gm (mA/V) | 0.7 | - | 100% | |
| d2 | 6.3 | 250 | 100 | -3 | Strapped 30V. D.C. applied. | | Triode Emission Current (mA) | 40 | - | 100% | |
| e2 | 6.3 | 250 | 100 | -3 | 100 | -20 | Ia (mA) | - | 0.6 | 100% | |
| f2 | 6.3 | 250 | 100 | -3 | 100 | -3 | Iao (mA) | 2.5 | 6.5 | 100% | |
| g2 | 6.3 | 250 | 100 | -3 | 250 | -30 | Iao (mA) | - | 1.0 | 100% | |
| h2 | 6.3 | 250 | 100 | -3 | 100 | -3 | Reverse Ig1 (μ A) | - | 1.0 | 100% | |
| j2 | 6.3 | 250 | 100 | -3 | 100 | -3 | Reverse Igo,3 (μ A) | - | 1.0 | 100% | |

NOTE

1 :- A protective resistance of 1 M Ω shall be used in series with the current meter