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| Specification MAP/CV1125/ Issue 4 Dated 4.3.47. 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> - H.F. Pentode <u>CATHODE</u> - Indirectly heated. <u>ENVELOPE</u> - Glass - metallised. <u>PROTOTYPE</u> - MS/PEN.B | | <u>MARKING</u> See K1001/4 | |
| <u>RATING</u> | | <u>BASE</u> | |
| | | B7 | |
| | | Pin | Electrode |
| Heater Voltage (V) | 4.0 | 1 | Metallising |
| Heater Current (A) | 1.0 | 2 | Anode |
| Max. Anode Voltage (V) | 250 | 3 | Suppressor grid |
| Max. Screen Voltage (V) | 125 | 4 | Heater |
| Max. Anode Dissipation (W) | 3.0 | 5 | Heater |
| Max. Screen Dissipation (W) | 1.0 | 6 | Cathode |
| Max. Grid Resistance (MΩ) | 2.0 | 7 | Screen grid |
| Mutual Conductance (mA/V) | 2.8 | T.C. | Control grid |
| Anode Impedance (MΩ) | 0.6 | <u>TOP CAP</u> | |
| | | See K1001/AI/D5.1 | |
| | | <u>DIMENSIONS</u> | |
| | | See K.1001/AI/D1. | |
| | | Dimension | Min. Max. |
| | | A (mm) | - 127 |
| | | B (mm) | - 45 |
| <u>NOTE</u> | | | |
| A. $V_a = 250V$, $V_{g2} = 125V$, $V_{g1} = -2.0V$, $I_a = 5.4mA$. | | | |

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 HP | Links to LP | Links to E | | | | | | C _{ae} | - | 11.0 |
| | 2 | 1,3,4,5,6,7 | 8,9,10, TC1, TC2 | | | | | | C _{ge} | - | 10.0 |
| | TC1 | 1,3,4,5,6,7 | 2,8,9,10, TC2 | | | | | | C _{ag} | - | 0.005 |
| | 2 | TC1 | 1,3,4,5,6,7,8,9,10, TC2 | | | | | T.A. | | | |
| b | V _h | V _a | V _{g2} | V _{g1} | I _h (A) | 0.9 | 1.1 | 100% or S | | | |
| | 4.0 | 0 | 0 | 0 | | | | | | | |
| c | 4.0 | 200 | 100 | -1.5 | I _a (mA) | 3.2 | 6.4 | 100% | | | |
| d | 4.0 | 200 | 100 | -1.5 | g _m (mA/V) | 2.2 | - | 100% | | | |
| | | Peak grid swing ±0.5V. max. | | | | | | | | | |
| e | 4.0 | 200 | 100 | -1.5 | I _{g2} (mA) | - | 2.0 | 100% or S | | | |
| f | 4.0 | 200 | 100 | -1.5 | Reverse I _{g1} (μA) | - | 1.0 | 100% | | | |
| g | 4.0 | 200 | 100 | -6.0 | I _a (mA) | - | 0.2 | 100% | | | |