

ADMIRALTY SIGNAL ESTABLISHMENT

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|--|------------------------------------|------------------------------|
| Specification AD/CV1174/Issue 3. Dated 30.10.46. To be read in conjunction with K1001. | <u>SECURITY</u> | |
| | <u>Specification</u> Restricted | <u>Valve</u> Unclassified |

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|---|---------------------|--|
| <u>TYPE OF VALVE:-</u> Output Pentode or Beam Tetrode. <u>CATHODE:-</u> Indirectly Heated. <u>ENVELOPE:-</u> Glass, clear. <u>PROTOTYPES:-</u> Pen. 4VA, KT42, MP/Pen, AC/Pen. | <u>MARKING</u> | |
| | See K1001/4. | |
| | <u>BASE</u> B7 | |
| | See K1001/AIV/D5.3. | |

| <u>RATING</u> | | | Note | Pin | Electrode |
|----------------------------|-----|------|------|-----|------------------------------------|
| Heater Voltage (V) | 4.0 | A | | A | 1 |
| Heater Current (A) | 1.2 | | 2 | | G1 |
| Max. Anode Voltage (V) | 250 | | 3 | | G2 |
| Max. Screen Voltage (V) | 250 | | 4 | | H |
| Mutual Conductance (mA/V) | 2.0 | | 5 | | H |
| Max. Anode Dissipation (W) | 9 | | 6 | | C and G3 inter- nally connected |
| | | | 7 | | A |
| <u>DIMENSIONS</u> | | | | | |
| See K1001/AI/D1. | | | | | |
| Dimension | | Min. | Max. | | |
| A mm | | - | 137 | | |
| B mm | | - | 58 | | |
| <u>PACKING</u> | | | | | |
| See K1001/7. | | | | | |

NOTE

A. At $V_a = 250$ V, $V_{g2} = 250$ V, $V_{g1} = -12.5$ V.

TESTS

To be performed in addition to those applicable in K1001

| | Test Conditions | | | | Test | Limits | | No. Tested |
|---|-----------------|-----------|------------|---------------|---|--------|------|---------------|
| | Vh (V) | Va (V) | Vg2 (V) | Vg1 (V) | | Min. | Max. | |
| a | 4.0 | - | - | - | Ih (A) | 0.9 | 1.5 | 100% or S |
| b | 4.0 | 250 | 250 | Ad- justed | Reverse Ig (μA) | - | 4.0 | 100% |
| | Ia = 40 mA. | | | | | | | |
| c | 4.0 | 250 | 250 | -15 | Ia (mA) | 20 | 75 | 100% |
| d | 4.0 | 250 | 250 | -20 | Ia change from value in test 'c' (mA) | 9.0 | - | 100% |