VALVE ELECTRONIC (VT75A)

CVI576

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| Specification MAP/CV1576/Iss Dated 24.7.47. To be read in conjunction wi ignoring clause 5.2. | SECURITY Specification Valve RESTRICTED RESTRICTED | | | reporta mos | | |
| | | - Indi | cates a cha | inge | | |
| TYPE OF VALVE : Output tetro (Pentode che CATHODE : Indirectly he ENVELOPE : Glass-unmeter PROTOTYPE : KT44T | MARKING See K1001/4 | | | | | |
| RATING Note | | | BASE B7 | | | |
| Heater Voltage (V) Heater Current (A) | 4.0 | | Pin | E1 | ectrode | |
| Normal Continuous Operation Max. Anode Voltage (V) Max. Screen Voltage (V) Max. Anode Dissipation (W) Max. Screen Dissipation (W) Mutual Conductance (mA/V) | 400 300 10.0 3.0 6.25 | A | 1 2 3 4 5 6 7 T.C. | No connec Control g Beam form Heater Heater Cathode Screen gr Anode | rid ing plate | S |
| Pulse Working Max. Anode Supply Voltage (kV) Max. Screen Supply | 1.0 | | The beam forming plates may be internally connected to cathode in which case there would be no connection to Pin 3. TOP CAP See K1001/AI/D5.1 | | | |
| Voltage (kV) Max. Peak Anode Vol- | 1.0 | | | | | |
| tage (kV) | | | | | | |
| NOTE A. Va = 250, Vg2 = 250, | <u>DIMENSIONS</u> See K1001/AI/D1. | | | | | |
| | | | Dimensio | n | Min. | Max. |
| | | | A B | (mm) | 144. | 152 57 |
| | | | | | | |
| | | | | | | |

CV1576

To be performed in addition to those applicable in K1001.

| | Test Committions | | | Test | | Limits | | No. | | | | |
|----------|--|------------------|------------------|--|--------------|-------------------|-------------|---|------------------|--------------------------|--|--|
| mi be | Before the following tests are made, the valve is to be run for a period of 5 minutes with Vf = 4.0, Va = Vg2 = 250, Ia = 85 mA. The beam forming plates are to be connected to the cathode during this warming period and during the following tests. | | | | | | | | | | | |
| 8 | Vf 4.0 | Va O | V g2 0 | Vg1 0 | Ia,(mA) O | Ih | (A) | 1.8 | 2,2 | 100% or S | | |
| ь | 4.0 | 250 | 250 | | 85 | Reverse I | g1 (μA) | - | 2.5 | 100% | | |
| С | c The valve shall be processed so that it will withstand the following conditions for one minute without flashing occurring (See Note 1) | | | | | | | | | | | |
| | 4.2 | See Note 2 | 800 | Not more posi- tive than -200 | - | | | | | 100% See Note 1 | | |
| đ | 4.2 | 500 | 800 | +50 See Note 3 | - | (1) Ia (2) Ig2 | (A) (mA) | 1.6 To be than 2 of and curren readin (d.1) | :0% ode it | 100% 100% | | |
| е | 4.2 | 500 | 600 | +50 See Note 3 | - | Ig1 | | To be | posi | 100% | | |
| £ | 4.2 | 1kV | 1 kV | -200 | 25 | Ia | (mA) | | 1.0 | 100% | | |
| g | g The disposition of the leads in the pinch shall be such that at 1/5th atmosphere, 1 kV. can be applied between pin No.7 and any other pin without breakdown. | | | | | | | | | | | |

NOTES

- 1. The processing shall be carried out in an approved apparatus and once the conditions specified in clause 'c' have been met, the test conditions need not be repeated for acceptance testing.
- 2. Pulse of approximately half sine wave shape, 9 kV. (approx.) instantaneous peak, superimposed on 1 kV. D.C. and 2 μ secs. half period to be applied 750 ± 250 times per second.
- 3. This voltage to be applied as an intermittent pulse of, say, 10 µsecs. duration. Measurements to be made when grid is 50 volts positive.