VALVE ELECTRONIC CV 1607

GENERAL POST OFFICE: E-IN-C (W)

(POVT 16)

| Specification: G.P.O./CV1607/Issue 1 | SECURITY | | | |
|---------------------------------------|---------------|--------------|--|--|
| Dated: 18-9-46 | Specification | <u>Valve</u> | | |
| To be read in conjunction with K 1001 | Restricted | Restricted | | |

_____ indicates a change

| TYPE OF VALVE: Transmitting tricde CATHODE: Directly heated tungsten ENVELOPE: Silica (tungsten seals) PROTOTYPE | MARKING See K 1001/4 Additional markings required (See notes A & B) Serial No | | | |
|---|---|----------------|---|--|
| Filament current (A) Nominal filament voltage (V) Max. anode voltage (kV) Max. anode dissipation (kW) Max. operating frequency (kc/s) Amplification factor Anode impedance (k/ohms) | 40.0 18.0 10.0 2.5 500 60.0 21.0 | Mote C C | BASE None (flexible leads) CONNEXIONS The anode lead shall be brought out at one end of the valve and the filament and grid leads at the other end. The length of leads shall be at least 12 inches. DIMENSIONS Max. overall length | |
| | | | excluding leads 550 mm Max. diameter 120 mm | |

NOTES

- A. The Serial Numbers will be allotted by the Inspecting Officer.
- B. It is not essential that the additional marking shall appear within the frame.
- C. Measured with Va = 12 kV, and Ia = 200 mA.

TESTS

The tests shown in Table I, or, alternatively, those shown in Table II shall be performed in addition to those applicable in K 1001

TABLE I (for A.C. filament heating).

| | TEST CONDITIONS | | | | LIM | LIMITS | | | |
|-----|-----------------|--------|--------|--------|---------------|----------|-------|---------------|------|
| | If(A) | Va(kV) | Vg(V) | Ia(mA) | TEST | Min. | Max. | No. Tested | Note |
| (a) | 40 | - | | - | WP (| 7) 17.0 | 19,0 | 100% | |
| (b) | ۴o | 12.5 | Adjust | 200 | Reverse Ig (µ | - | 75.0 | 100% | 1 |
| (c) | 4 0 | 10 | Read | 200 | 200 µ | 51.0 | 69.0 | 100% | |
| (0) | | 14 | Read | 200 | | | | 1, | |
| (d) | 40 | 9•5 | Read | 200 | Vg (| 7) -10,0 | -50.0 | 100% | |

TABLE II (for D.C. filament heating).

| | TEST CONDITIONS | | | TEST | | LIMITS | | | | |
|-------------|-----------------|----------|--------------|--------|------------|--------|------|-------|---------------|------|
| | If(A) | Va(kV) | ₩g(V) | Ia(mA) | TEST | | Min. | Max. | No. Tested | Note |
| (a) | 40 | - | - | - | WC 2W | (v) | 17.0 | 19.0 | 100% | |
| (b) | 40 | 12.5 | Adjust | 200 | Reverse Ig | (µA) | - | 75•0 | 100% | 1 |
| (c) | 40 | 10 14 | Read Read | 200 | μ | | 51.0 | 69.0 | 100% | |
| (d) | 40 | 9•5 | Read | 200 | ₩g | (V) | -1.0 | -41.0 | 100% | |

NOTE

1. The duration of test (b) shall be 15 minutes and the reverse grid current shall not be rising after the first 5 minutes.