# VALVE ELECTRONIC CV 1648

(P O V T 56)

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

| Specification: G.P.O./EV 1648/Issue 1<br>Dated: 6-8-46<br>To be read in conjunction with K 1001 | SECURITY<br>Specification: Restricted<br>Valve: Restricted |
|---|---|

——→ indicates a change

TYPE OF VALVE: Triode
CATHODE: Directly heated
ENVELOPE: Unmetallised glass
PROTOTYPE 4205E

MARKING

See K 1001/4

| RATING | | | Note |
|---|---|---|---|
| Filament current | (A) | 1.6 | |
| Nominal filament voltage | (V) | 4.5 | |
| Max. anode voltage | (V) | 400 | A |
| Max. anode current | (mA) | 50.0 | A |
| Max. anode dissipation | (W) | 15.0 | A |
| Max. operating frequency | (Mc/s) | 30 | |
| Max. anode voltage at 30 Mc/s | (V) | 300 | |
| Amplification factor | | 6.7 | B |
| Anode impedance | (ohms) | 3500 | B |

| CAPACITANCES (pF) | | |
|---|---|---|
| Cag | (nominal) | 4.8 |
| Cge | (nominal) | 5.2 |
| Cae | (nominal) | 3.3 |

BASE

See drawing on page 2

CONNEXIONS

See drawing on page 2

DIMENSIONS

See K 1001/A1/D1

| Dimension | Min. | Max. |
|---|---|---|
| A (mm) | - | 110 |
| B (mm) | - | 65 |

NOTES

A. The maximum frequency of operation for these ratings is 15 Mc/s.

B. Measured with Va = 250, and Vg = - 15 (D.C. filament)

# CV 1648

## TESTS

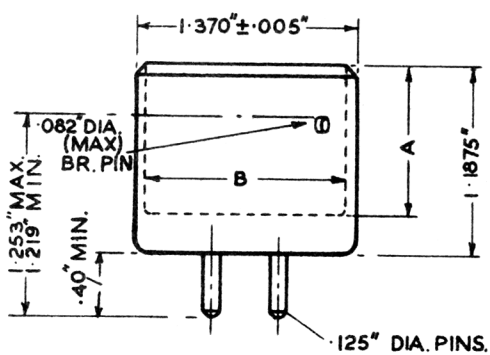
To be performed in addition to those applicable in K 1001

| | TEST CONDITIONS | | | TEST | LIMITS | | No. Tested | Note |
|---|---|---|---|---|---|---|---|---|
| | If (A) (DC) | Va | Vg | | Min. | Max. | | |
| (a) | 1.6 | - | - | Vf (V) | 4.0 | 5.0 | 100% | |
| (b) | 1.6 | 350 | -15 | Reverse Ig (μA) | - | 5.0 | 100% | 1 |
| (c) | 1.6 | 250 | -15 | Ia (mA) | 17.0 | 25.0 | 100% | |
| (d) | 1.6 | 250 | -15 | μ | 6.0 | 7.4 | 100% | |
| (e) | 1.6 | 250 | -15 | Ra (ohms) | 3000 | 4500 | 100% | |

NOTE

1. The duration of test (b) shall be 2 minutes and the reverse grid current shall not be rising at the end of the test.

## BAYONET CAP 4-PIN BASE, AND CONNEXIONS (NON-STANDARD)




NOTE: INTERNAL DIMENSIONS A & B TO SUIT MANUFACTURERS' REQUIREMENTS.