G.E.C.
VALVES

# VHF/UHF TRIODE

# A1714

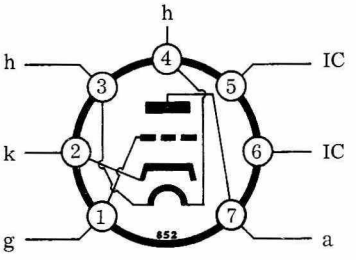
ISSUE 4

A triode with planar electrodes for use as an RF oscillator at frequencies up to 1000 Mc/s or as a low noise amplifier at frequencies up to about 300 Mc/s.

The A1714 is a commercial equivalent of CV408.

In many applications the A1714 may be replaced by the A2975 with improved performance.

## BASE CONNECTIONS AND VALVE DIMENSIONS




View from underside of base

Base: B7G
Bulb: Tubular
Max. overall length: 54 mm.
Max. seated length: 47·5 mm.
Max. diameter: 19 mm.

## HEATER

| | | |
|---|---|---|
| $V_h$ | 6·3 | V |
| $I_h$ | 0·49 (approx) | A |

## MAXIMUM RATINGS (Design centre)

| | | |
|---|---|---|
| $V_a$ | 250 | V |
| $p_a$ | 2.5 | W |
| $I_k$ | 45 | mA |
| $i_{k(pk)}$ | 150 | mA |
| $V_g$ | −30 | V |
| $p_g$ | 0.1 | W |
| $I_g$ | 10 | mA |
| $v_{h-k(pk)}$ | 90 | V |

## CAPACITANCES (of unscreened valve)

| | |
|---|---|
| $^*c_{a-g}$ | 0.9 pF |
| $^*c_{a-\text{all less g}}$ | 1.3 pF |
| $^\dagger c_{g-\text{all less a}}$ | 3.0 pF |

*Measured on a cold valve.
†Measured at 1 Mc/s, with $V_a$ = 150, $I_a$ = 10mA.

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AUGUST 1965

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## CHARACTERISTICS

| | | |
|---|---|---|
| $V_a$ | 150 | V |
| $I_a$ | 10 | mA |
| $V_g$ | −2.2 (approx) | V |
| $g_m$ | 8.5 | mA/V |
| $\mu$ | 45 | |
| $r_{eq}$ noise ref g | 500 | Ω |
| *$r_{in}$ (45 Mc/s) | 40 | kΩ |
| *$c_{g-all}$ (45 Mc/s) | 5 | pF |
| Noise factor (45 Mc/s) | 1.9 | dB |

*Measured with anode decoupled to cathode.

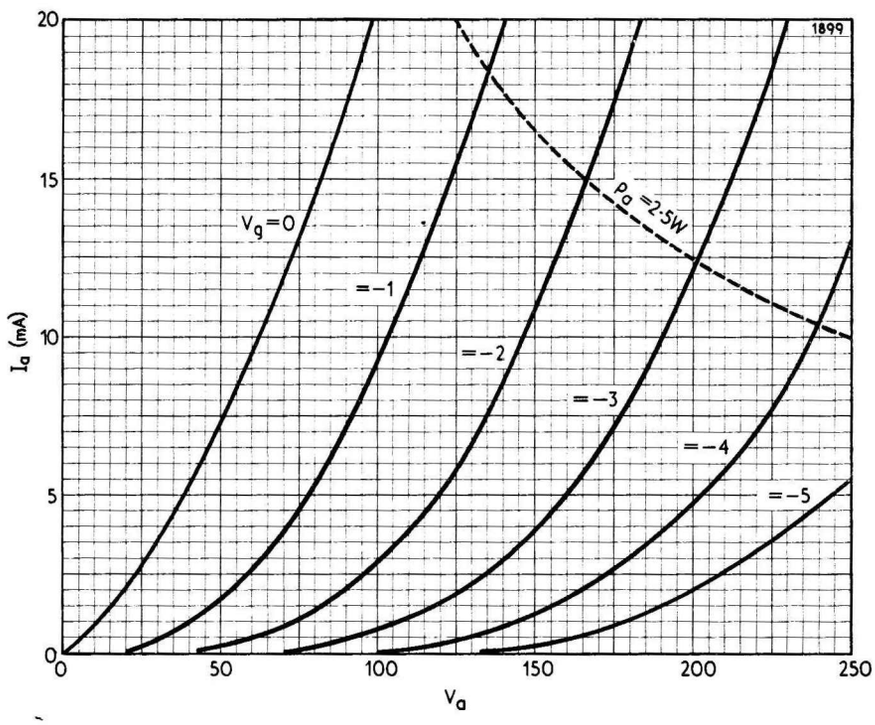
## INSTALLATION

The valve may be mounted in any position.

A separate screening can should be used when the application demands.

Free air circulation around the bulb is preferable.

The temperature of the hottest part of the bulb must not exceed 220°C.



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