

# BRIMAR

## VALVES

### R.M.A. REGISTRATION DATA

TYPE **6064**

GAKS

DATE ISSUED **9.2.51.**6064HIGH SLOPE R.F. PENTODE

This valve is designed for trustworthy operation under conditions of vibration and mechanical shock. It is particularly suitable for use in wide band amplifiers and will function (in conjunction with a suitable oscillator) as a frequency changer at frequencies up to 100 m/cs.

MECHANICAL DATA:

Coated unipotential cathode.

Outline drawing ..... 5-2

Bulb ..... T-5 $\frac{1}{2}$ 

Base ..... E7-1

Miniature button 7-pin

Maximum diameter ..... 3/4"

Maximum overall length ..... 2.1/8"

Maximum seated height ..... 1.7/8"

Pin connections ..... Basing No. ~~BD~~

Pin 1 - Grid No. 1

Pin 5 - Plate

Pin 2 - Cathode

Pin 6 - Grid No. 3 and

Pin 3 - Heater

internal shield

Pin 4 - Heater

Pin 7 - Grid No. 2

Mounting position ..... any

Maximum shock (in intermittent service) ..... 500 g

Vibration (continuous service) ..... 2 $\frac{1}{2}$  g

Mechanical resonance ..... None below 100 c/s

ELECTRICAL DATA:Direct inter-electrode capacitances:

Grid to plate ..... 0.01 pF max.

Input ..... 7.8 pF

Output ..... 3.9 pF

\* With shield No. 316 connected to cathode.

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BRIMAR VALVE WORKS, FOOTSCRAY, KENT, ENGLAND.

Ratings:

|                                      |           |
|--------------------------------------|-----------|
| Heater voltage (ac or dc) .....      | 6.3 volts |
| Heater current .....                 | 0.3 amp   |
| Maximum heater-cathode voltage ..... | 90 volts  |
| Maximum plate voltage .....          | 250 volts |
| Maximum plate dissipation .....      | 2.5 watts |
| Maximum Grid No. 2 voltage .....     | 250 volts |
| Maximum Grid No. 2 dissipation ..... | 0.8 watts |

Typical operating characteristics:

Suppressor grid (Grid No. 3) connected to cathode

|                                                    |      |             |
|----------------------------------------------------|------|-------------|
| Anode voltage .....                                | 200  | 250 volts   |
| Anode current .....                                | 9.0  | 10.0 mA     |
| Screen voltage .....                               | 200  | 250 volts   |
| Control grid (Grid No. 1) voltage .....            | -1.5 | -2.0 volts  |
| Cathode bias resistor .....                        | 135  | 160 ohms    |
| Plate impedance (approx.) .....                    | 0.8  | 1.0 megohms |
| Mutual conductance .....                           | 7.5  | 7.5 mA/V    |
| Inner amplification factor ( $\mu_{g1-g2}$ ) ..... | 70   | 70          |