

# BRIMAR

## VALVES

TYPE **6061**DATE ISSUED **22.2.51.**

## R.M.A. REGISTRATION DATA

6061BEAM PENTODE

This valve is designed for trustworthy operation under conditions of vibration and mechanical shock. It is a miniature type beam power amplifier pentode designed for use in medium power audio amplifier applications. It has electrical characteristics which are identical to those of the 6V6G/GT. The use of the T-6 $\frac{1}{2}$  bulb enables the 6061 to meet the full rating of the 6V6G/GT.

MECHANICAL DATA:

Coated unipotential cathode.  
 Outline drawing ..... 6-3                      Bulb ..... T-6 $\frac{1}{2}$   
 Base ..... E9-1 Miniature glass button 9-pin.  
 Maximum diameter ..... 7/8"  
 Maximum overall length ..... 2.5/8"  
 Maximum seated height ..... 2.3/8"  
 Pin connections ..... Basing No. 9AM

|                    |                              |
|--------------------|------------------------------|
| Pin 1 - Grid No. 1 | Pin 6 - Internally connected |
| Pin 2 - Grid No. 1 | Pin 7 - Plate                |
| Pin 3 - Cathode    | Pin 8 - Grid No. 2           |
| Pin 4 - Heater     | Pin 9 - Grid No. 3           |
| Pin 5 - Heater     |                              |

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:Ratings

Heater voltage (ac or dc) ..... 6.3 volts  
 Maximum heater-cathode voltage ..... 100 volts  
 Maximum plate voltage ..... 315 volts  
 Maximum Grid No. 2 voltage ..... 285 volts  
 Maximum plate dissipation ..... 12 watts  
 Maximum Grid No. 2 dissipation ..... 2 watts  
 Maximum external Grid No. 1 circuit resistance-self bias... 0.5 megohm  
 Maximum external Grid No. 1 circuit resistance-fixed bias.. 0.1 megohm  
 Maximum bulb temperature at any point ..... 250°C

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Typical operating conditions and characteristics class A<sub>1</sub> amplifier

|                                           |       |       |                |
|-------------------------------------------|-------|-------|----------------|
| Heater voltage (ac or dc) .....           | 6.3   | 6.3   | 6.3 volts      |
| Heater current .....                      | 450   | 450   | 450 mA         |
| Plate voltage .....                       | 180   | 250   | 315 volts      |
| Grid No. 3 voltage .....                  | 0     | 0     | 0 volts        |
| Grid No. 2 voltage .....                  | 180   | 250   | 225 volts      |
| Grid No. 1 voltage .....                  | -8.5  | -12.5 | -13 volts      |
| Plate resistance (approx.) .....          | 58000 | 52000 | 77000 ohms     |
| Transconductance .....                    | 3700  | 4100  | 3750 $\mu$ hos |
| Peak a-f signal voltage .....             | 8.5   | 12.5  | 13 volts       |
| Zero signal plate current .....           | 29    | 45    | 34 mA          |
| Zero signal Grid No. 2 current .....      | 3     | 4.5   | 2.2 mA         |
| Maximum signal plate current .....        | 30    | 47    | 35 mA          |
| Maximum signal Grid No. 2 current .....   | 4     | 7     | 6 mA           |
| Load resistance .....                     | 5500  | 5000  | 8500 ohms      |
| Total harmonic distortion (approx.) ..... | 8     | 8     | 12%            |
| Power output .....                        | 2.0   | 4.5   | 5.5 watts      |