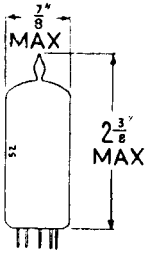
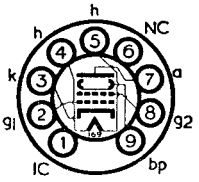



**Current Equipment Type**

# TYPE **6BW6** MINIATURE OUTPUT BEAM TETRODE




The BRIMAR type 6BW6 is a B9A (Noval) based output beam tetrode, the characteristics and ratings of which are identical to those of the 6V6G/GT. It is suitable for R.F. application up to frequencies of the order of 150 Mc/s.

| | |
|---|---|
| Heater Voltage ... | 6.3 volts |
| Heater Current | 0.45 amp. |

## RATINGS

| | |
|---|---|
| Anode Voltage ... | 315 volts max. |
| Anode Dissipation | 12 watts max. |
| Screen Voltage ... | 285 volts max. |
| Screen Dissipation | 2.0 watts max. |
| Hot Spot Bulb Temperature | 250° C. max. |
| D.C Cathode Current | 65 mA max. |

## OPERATING CHARACTERISTICS

| | Single Valve Class A | | Push-Pull Class AB1 (2 valves) | |
|---|---|---|---|---|
| Anode Voltage ... | 180 | 250 | 285 | volts |
| Anode Current (Zero Signal) ... | 29 | 47 | 70 | mA |
| Anode Current (Max. Signal) ... | — | — | 78.5 | mA |
| Screen Voltage ... | 180 | 250 | 285 | volts |
| Screen Current (Zero Signal) ... | 3.0 | 5 | 4.0 | mA |
| Screen Current (Max. Signal) ... | — | — | 10 | mA |
| Cathode Bias Resistor ... | 250 | 240 | 260 | ohms |
| Anode Impedance | 58000 | 52000 | — | ohms |
| Mutual Conductance | 3.7 | 4.1 | — | mA/V |
| Optimum Load ... | 5500 | 5000 | 8000 | ohms |
| Power Output ... | 1.7 | 4.5 | 12 | watts |
| Harmonic Distortion | 7.5 | 8 | 1 | per cent. |

## OPERATION AS A TRIODE (Anode and Screen Strapped)

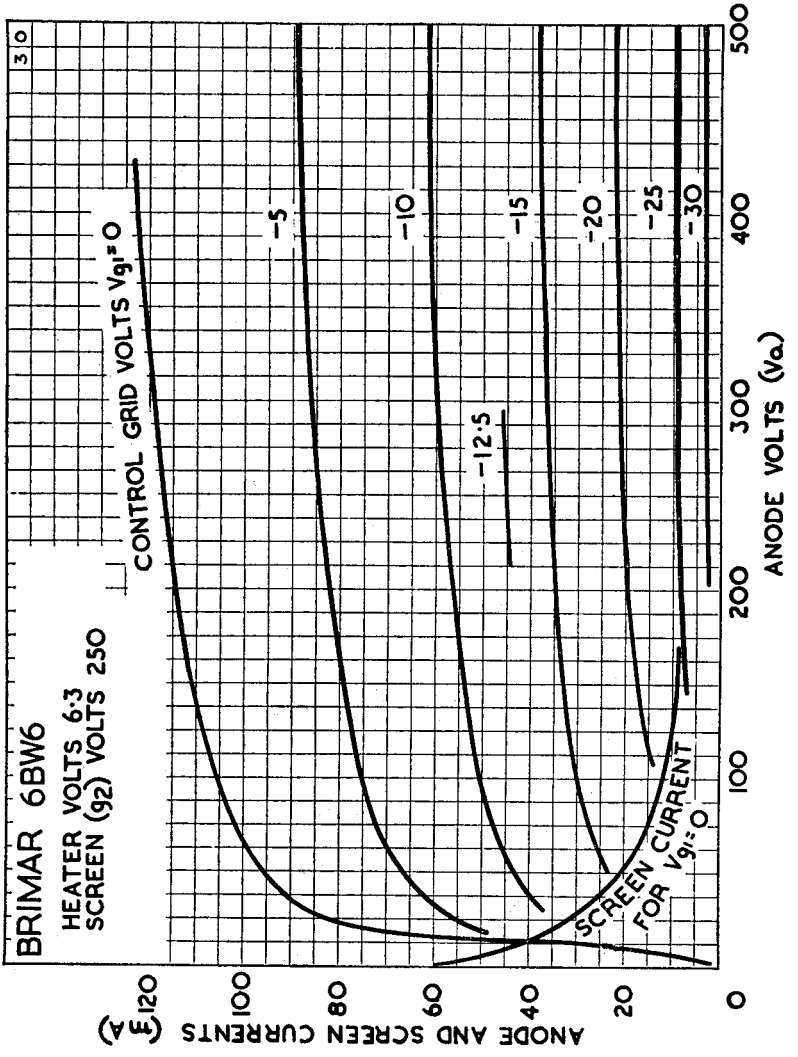
### CLASS A PUSH-PULL (2 valves)

| | | | |
|---|---|---|---|
| Anode Voltage ... | 250 | 285 | volts |
| Grid Voltage | —13.5 | —19 | volts |
| Cathode Bias Resistor ... | 150 | 240 | ohms |
| Anode Current (no signal) | 90 | 78 | mA |
| Optimum Load (anode to anode) | 4000 | 4500 | ohms |
| Power Output ... | 1.7 | 3.1 | watts |
| Harmonic Distortion | 0.4 | 0.5 | per cent. |

## INTER-ELECTRODE CAPACITANCES

| | |
|---|---|
| Input | 8.5 pF |
| Output | 7.5 pF |
| Grid to Anode | 0.6 pF |

*Type* 6BW6 *is a commercial equivalent of the* CV2136.


BRIMAR 6BW6
HEATER VOLTS 6·3
SCREEN (g2) VOLTS 250
CONTROL GRID VOLTS Vg1 = 0
-5
-10
-12·5
-15
-20
-25
-30
SCREEN CURRENT FOR Vg1 = 0
ANODE AND SCREEN CURRENTS (mA)
0
20
40
60
80
100
120
ANODE VOLTS (Va)
0
100
200
300
400
500