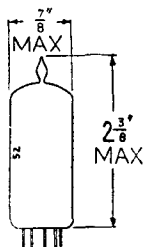


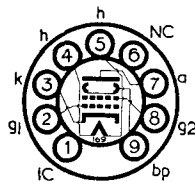
6BW6

Current Equipment Type

TYPE 6BW6 MINIATURE OUTPUT BEAM TETRODE



B9A (Noval) Base



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.

RATINGS

Heater Voltage	...	...	...	...	...	...	6.3 volts
Heater Current	...	...	...	...	...	...	0.45 amp.
Anode Voltage	...	...	...	...	...	...	315 volts max.
Anode Dissipation	...	...	...	...	...	...	12.0 watts max.
Screen (g_2) Voltage	...	...	...	...	...	...	285 volts max.
Screen Dissipation	...	...	...	...	...	...	2.0 watts max.
Bulb Temperature	...	...	...	...	...	...	250° C. max.
D.C. Cathode Current	...	...	...	...	...	...	65 mA. max.

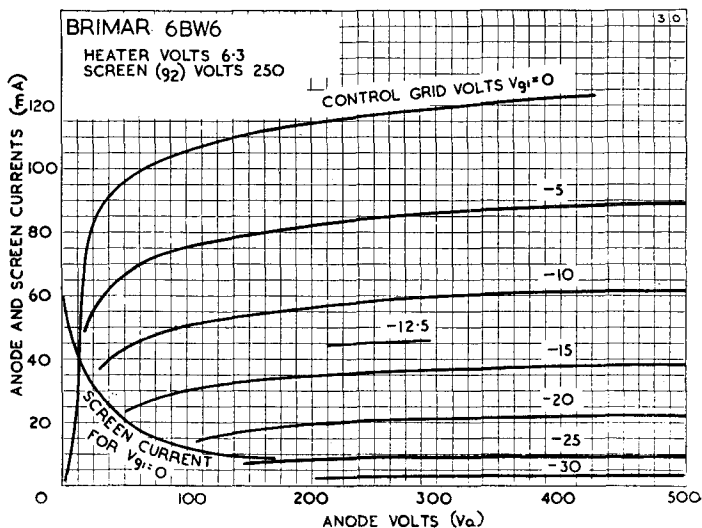
OPERATING CHARACTERISTICS

Anode Voltage	...	...	...	...	...	180	250	315	volts
Anode Current	...	...	...	...	...	29	45	34	mA
Screen Voltage	...	...	...	...	...	180	250	225	volts
Screen Current	...	...	...	...	...	3.0	4.5	2.2	mA
Control Grid (g_1) Voltage	...	...	...	...	...	-8.5	-12.5	-13	volts
Cathode Bias Resistor	...	...	...	...	...	270	250	360	ohms
Anode Impedance	...	...	...	...	...	58,000	52,000	77,000	ohms
Mutual Conductance	...	...	...	...	...	3.7	4.1	3.75	mA/V
Inner Amplification Factor (μ_{g_1, g_2})	...	...	...	...	...	—	10	—	—
Optimum Load	...	...	...	...	...	5,500	5,000	8,500	ohms
Power Output	...	...	...	...	...	2.0	4.5	5.5	watts
Harmonic Distortion	...	...	...	...	...	8.0	8.0	12	per cent.

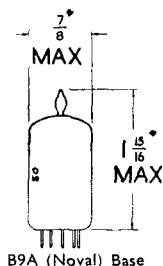
INTER-ELECTRODE CAPACITANCES

Input	...	...	...	...	...	...	8.5 pF
Output	...	...	...	...	...	...	7.5 pF
Grid to Anode	...	...	...	...	...	...	0.6 pF

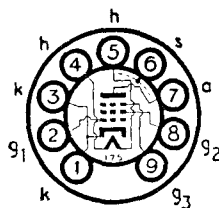
Type 6BW6 is a commercial equivalent of the CV2136.



Current Equipment Type



TYPE 6BW7 MINIATURE HIGH SLOPE R.F. PENTODE



The BRIMAR 6BW7 is a high slope R.F. pentode designed for use in the R.F. Frequency Changer, I.F. and Video stages of television receivers. The valve features high mutual conductance together with a high R.F. input impedance, achieved by the use of two cathode connections. Type 6BW7 will operate from a 180 or 250 volt H.T. rail, making it suitable for both AC/DC and AC operated receivers.

RATINGS

Heater Voltage	...	...	...	...	...	6.3 volts
Heater Current	...	...	...	...	...	0.3 amp.
Anode Voltage	...	...	...	...	...	275 volts max.
Anode Dissipation	...	...	...	...	...	2.75 watts max.
Screen (g_2) Voltage	...	...	...	...	...	275 volts max.
Screen Dissipation	...	...	...	...	...	1.2 watts max.

OPERATING CONDITIONS

(Suppressor Grid (g_3) connected to Cathode)

Anode Voltage	...	...	...	...	180	250 volts
Anode Current	...	...	...	...	9.5	9.5 mA
Screen Voltage	...	...	...	...	180	250 volts
Screen Current	...	...	...	...	3.5	3.5 mA
Cathode Bias Resistor	...	...	...	...	100	180 ohms
Mutual Conductance	...	...	...	...	9.3	8.5 mA/V
Anode Impedance	...	...	...	...	0.6	0.75 meg.
Input Impedance at 50 mc/s.	...	...	...	...	14,000	16,000 ohms
Inner Amplification Factor ($\mu_{g1, g2}$)	...	...	...	...	70	70
Control Grid (g_1) Voltage for anode current cut-off	...	...	...	...	-7	-8 volts
Suppressor Grid Voltage for $\frac{1}{10}$ normal anode current	...	...	...	...	-50	-75 volts

INTER-ELECTRODE CAPACITANCES *

Input	...	...	...	...	...	9.5 pF
Output	...	...	...	...	...	3.5 pF.
Control Grid to Anode	...	...	...	...	...	0.01 pF. max.

* With no external shield.

