

# BRIMAR VALVES

TYPE 9BW6

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## R.M.A. REGISTRATION DATA

### 9BW6 BEAM PENTODE

The 9BW6 is a miniature type beam power amplifier pentode similar to the type 6BW6. It is designed for use in A.C./D.C. medium power audio amplifier applications with particular reference to A.C./D.C. television receivers using a series heater chain of 0.3 amps. The use of the T-6 $\frac{1}{2}$  bulb enables the valve to meet the full rating of the 6V6C/GT.

#### MECHANICAL DATA

Coated unipotential cathode.  
 Outline drawing .....6-3                      Bulb .....T-6 $\frac{1}{2}$   
 Base .....E9-4 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 - IC
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

#### ELECTRICAL DATA

##### Ratings

Heater voltage (ac or dc) ..... 9.45 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

*Standard Telephones and Cables Limited*

BRIMAR VALVE WORKS, FOOTSCRAY, KENT, ENGLAND.

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

Heater voltage (ac or dc) .....	9.45	9.45	9.45 volts
Heater Current .....	300	300	300 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 $\mu$ mhos
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