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BRIMAR VALVES

R.M.A. REGISTRATION DATA

TYPE 9BW6

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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-6½ bulb enables the valve to meet the full rating of the 6V6G/GT.

MECHANICAL DATA

Coated unipotential cathode.
Outline drawing .....6-3 Bulb T-6½
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 - 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

60060/100

Standard Telephones and Cables Limited
BRIMAR VALVE WORKS, FOOTSCRAY, KENT, ENGLAND.

Typical operating conditions and characteristics class A_1 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	µmhos
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

60060/100A