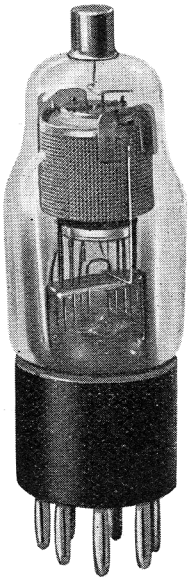


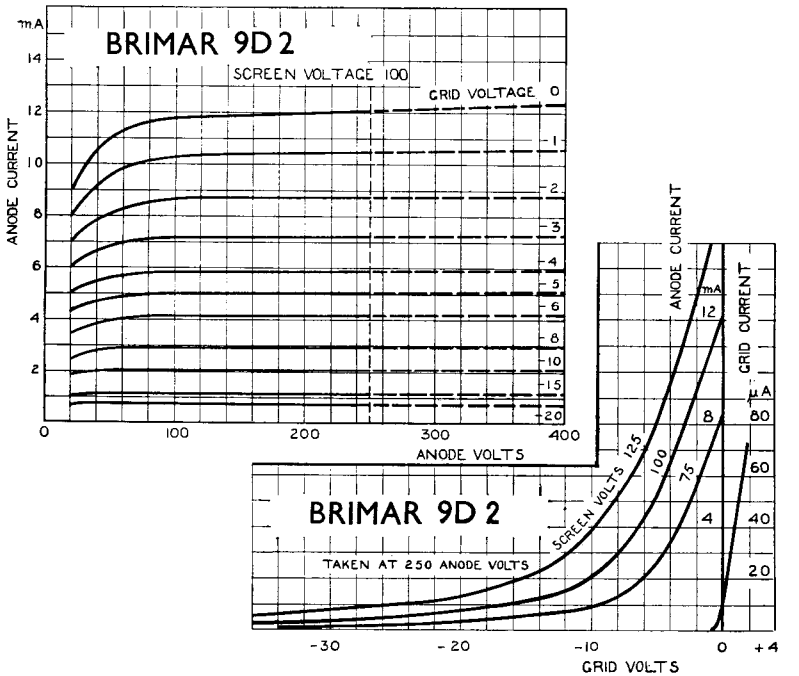
R.F. VARIABLE MU PENTODE TYPE 9D.2

The BRIMAR 9D.2 is an indirectly heated radio frequency pentode valve, suitable for use in A.C., universal or automobile receivers.

The variable mu characteristic eliminates the possibility of cross modulation or modulation distortion occurring when the valve is handling inputs usually associated with the R.F. or I.F. stages of a radio receiver. It also enables the gain of the valve to be varied over a wide range by the application of a varying control grid voltage, thus rendering the valve particularly suitable for use in receivers employing automatic volume control. The high mutual conductance at minimum operating grid bias, coupled with the low anode grid leakage capacity, enables extremely high stage gains to be obtained with complete stability.

In order to obviate the possibility of mains hum being introduced into the grid circuit, the control grid is brought out to the top cap. The valve is fitted with a seven-pin base, the connections being as shown on page 51.

CHARACTERISTICS



Heater Voltage	13 volts
Heater Current	0·2 amps.
Anode Voltage (maximum)	250 volts
Screen Voltage	125 volts
*Mutual Conductance mA./V.	1·65
*Impedance (ohms)	600,000
*Amplification Factor (M.)	1,000
†Mutual Conductance mA./V.	0·01

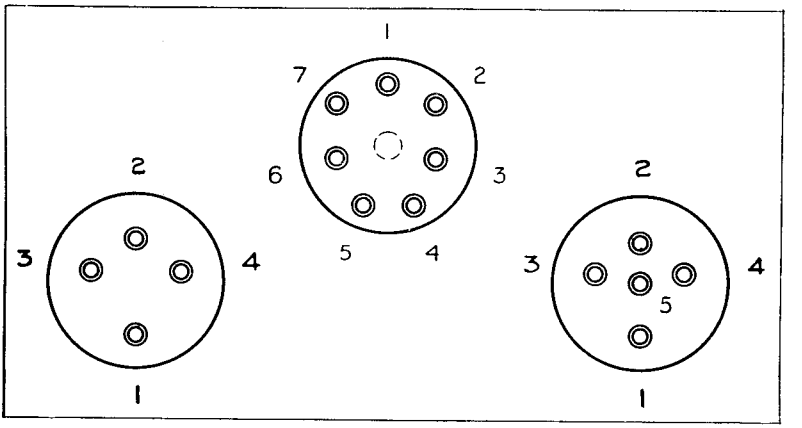
* *Taken at anode volts* 250, *screen volts* 125, *grid volts* —3

† *Taken at anode volts* 250, *screen volts* 125, *grid volts* —40

OPERATING DATA

Anode Voltage	250	200	140	95
Screen Voltage	125	100	100	95
Anode Current (mA.)	10.0	7·0	6·5	6·0
Screen Current (mA.)	3·5	2·5	2·5	2·0
Auto Bias Resistor (ohms) ...	200	300	300	400

BASE CONNECTIONS OF VALVES



UNDERSIDE VIEW OF BASES

4-PIN VALVES

TYPE	1	2	3	4
HLB.1, PB.1	A	G	F.M	F
R.1, R.2, R.3, 1A.7	A1	A2	H	H.C
4037A.	A	—	F	F

5-PIN VALVES

TYPE	1	2	3	4	5	Top Cap
8A.1, 9A.1 ...	G2	G1	H	H	C.M	—
HLA.2, PA.1 ...	A	G	H	H	C.M	—
PenB.1, PenA.1 ...	A	G1	F	F	G2	—
4039A	A	G	H	H	C	—
1D5	A	—	H	H	C	—

7-PIN VALVES

TYPE	1	2	3	4	5	6	7	Top Cap
4D.1 ...	—	—	—	H	H	C	A	G
7A.3, 7D.8, 7D.6, 7A.2, & 7D.3 ...	—	G1	G2	H	H	C	A	—
9D.2 ...	—	A	G3	H	H	C	G2	G1
11A.2, 11D.3	D1	M	D2	H	H	C	A	G1
15A.2, 15D.1	G2	G1	G3.G5	H	H	C	A	G4

A. *Anode.* G1, G2, G3, G4, 1*st*, 2*nd*, 3*rd and* 4*th Grids.*
F. *Filament.* H. *Heater.* C. *Cathode.* D1, D2, *Diodes.*
M. *Metallising.*