

AC/PEN

A.C. MAINS OUTPUT PENTODE

RATING.

| Heater Voltage | | | | | 4.0 |
|-----------------------------|--------|--------|---------|---------|---------|
| Heater Current (Amps.) | | | | | 1.0 |
| Maximum Anode Voltage | | | • • • | • • • • | 250 |
| Maximum Screen Voltage | | | | | 250 |
| *Mutual Conductance (mA/V) | | | | | 2.5 |
| Maximum Anode Dissipation (| watts) | | | | 8.0 |
| *Taken at Fa | 100 : | Es = I | 00 : Es | · O. | |

TYPICAL OPERATION.

| Anode Voltage | | | ••• | | 200 | 250 |
|-----------------------------|-----|--------|---------|-------|-------------|-------|
| Screen Voltage | | | | • • • | 200 | 250 |
| Anode Current (mA) | | ••• | | | 24 | 32 |
| Self-Bias Resistance (ohms) | | | ••• | • • • | 300 | 250 |
| *Optimum Load (ohms) | | | | | 8,000 | 7,500 |
| *Power Output (Watts) | | | • • • | ••• | 2 ·0 | 3.3 |
| *Input Swing (Volts RMS) | | | ••• | | 8.0 | 10.0 |
| *For 5% Third Harmonic, | and | Second | Harmoni | c not | exceedin | g 5%. |

DIMENSIONS.

| Maximum Overall Length | | | 134 mm. |
|------------------------|------|------|---------|
| Maximum Diameter | | | 58 mm |

GENERAL.

The AC/PEN is an output pentode designed for use in A.C. mains receivers. The valve is fitted with a 7-pin base, the connexions to which are given overleaf.

APPLICATION.

The valve should always be self-biased, and the bias resistance by-passed by a 50 mfd. condenser. In order to prevent excessive rise of anode load with frequency a condenser resistance filter should be connected across the anode load circuit. The condenser should have a capacity of -01 mfd. and the resistance should be about 7,500. The grid to cathode resistance should not exceed 1 megohm.

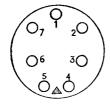
EDISWAN RADIO



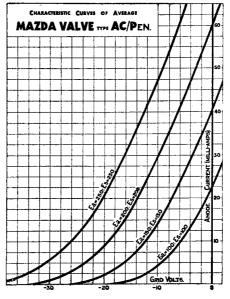
BASING.

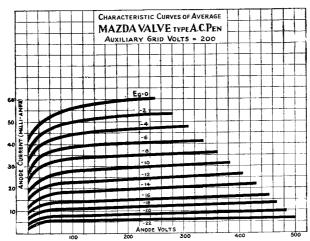
Pin No. I. —

- Control Grid.
- 3. Screen.
- 4. Heater.
- 5. Heater.
- 6. Cathode.
- 7. Anode.



Viewed from the free end of the base.





Mazda Radio Valves are manufactured in Great Britain for the British Thomson-Houston Co., Ltd., London and Rugby, and distributed by

THE EDISON SWAN ELECTRIC CO., LTD. 155, CHARING CROSS ROAD, LONDON, W.C.2.