



TH. 2320

A.C./D.C. MAINS TRIODE HEPTODE

RATING.

| | | |
|------------------------|--------|------|
| Heater Voltage | | 23.0 |
| Heater Current (Amps.) | | 0.2 |

Heptode.

| | | |
|----------------------------|--------|-----|
| Maximum Anode Voltage | | 250 |
| Maximum Screen Voltage | | 250 |
| *Mutual Conductance (mA/V) | | 3.0 |

*Taken at $E_a=150$; $E_s=100$; $E_G=-2$; $E_{G0}=0$.

Triode.

| | | |
|---------------------------------|--------|-----|
| Maximum Anode Voltage | | 150 |
| *Mutual Conductance (mA/V) | | 5.3 |
| *Amplification Factor | | 16 |
| Maximum Peak Anode Current (mA) | | 15 |

*Taken at $E_a=100$; $E_g=0$.

TYPICAL OPERATION.

| | | |
|--------------------------------------|--------|-----|
| Screen Voltage (initial) | | 100 |
| Grid Bias | | 3 |
| Anode Current (mA) | | 3 |
| Screen Current (mA) | | 6 |
| Conversion Conductance ($\mu A/V$) | | 750 |
| Heterodyne Volts Peak | | 9 |

INTER-ELECTRODE CAPACITIES.

| | | |
|--|--------|-----------------|
| *Anode to Earth | | 11.5 $\mu F.$ |
| *Grid to Earth | | 9.5 $\mu F.$ |
| Anode to Grid | | 0.0015 $\mu F.$ |
| *Anode 0 to Earth (less G_0 to A_0) | | 4.0 $\mu F.$ |
| *Grid 0 to Earth (less G_0 to A_0) | | 10.25 $\mu F.$ |
| Anode 0 to Grid 0 | | 2.25 $\mu F.$ |

*"Earth" denotes the electrodes of any second valve section and the remaining earthy potential electrodes of the section under measurement, H and M joined to cathode.

DIMENSIONS.

| | | |
|------------------------|--------|--------|
| Maximum Overall Length | | 128 mm |
| Maximum Diameter | | 39 mm. |

GENERAL.

The TH 2320 is a triode heptode frequency changer for use in AC/DC receivers. It has been specially designed to meet the requirements of all wave receivers, and the inter-reaction between the input and oscillator circuits has been reduced to a minimum. A high conversion conductance is provided with a large initial grid bias, thus ensuring that no grid current is taken on the short wave bands. The characteristics have been so designed as to provide large signal handling capacity with low cross modulation, and low harmonic response. The valve is fitted with a standard 7 pin base, the connexions to which are given overleaf.





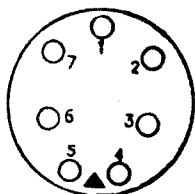
APPLICATION.

For notes on the above, reference should be made to valve type AC/TH1.

The characteristics of the TH2320 are identical with those of the AC/TH1, and any reference should be made to the curves under this heading.

BASING.

- | | |
|------------|------------------------|
| Pin No. 1. | Oscillator Anode. |
| 2. | Oscillator Grid. |
| 3. | Heptode Screen. |
| 4. | Heater. |
| 5. | Heater. |
| 6. | Cathode & Metallising. |
| 7. | Heptode Anode. |
| Top Cap. | Heptode Grid. |



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.**

