

EDISWAN

MAZDA

10M2/UM35

DUAL SENSITIVITY TUNING INDICATOR

Indirectly heated—for series operation

10M2/UM35

GENERAL

The 10M2/UM35 is a cathode ray tuning indicator of the dual sensitivity type giving a fluorescent image in the form of a Maltese Cross. One pair of angles are of low sensitivity whilst the other pair are of high sensitivity, the cut-off voltages being -20 and -3 respectively, with an anode supply voltage of 200 volts.

RATING

| | | |
|---|-----------------|------|
| Heater Current (amps) | I_h | 0.1 |
| Heater Voltage (volts) | V_h | 12.6 |
| Maximum Anode Voltage (volts) | $V_a(\max)$ | 300 |
| Maximum Anode Dissipation (either section) (watts) | $P_a(\max)$ | 0.5 |
| Maximum Target Voltage (volts) | $V_t(\max)$ | 250 |
| Minimum Target Voltage (volts) | $V_t(\min)$ | 90 |
| Maximum Cathode Current (mA) | $I_k(\max)$ | 5 |
| Maximum Heater/Cathode Voltage (R.M.S.) (volts) | $V_{h-k}(\max)$ | 200 |
| Maximum Grid to Cathode Resistance (megohms) | $R_{g-k}(\max)$ | 3 |

DIMENSIONS

| | | |
|------------------------|-------|----------------|
| Maximum Overall Length | (mm) | 90 |
| Maximum Diameter | (mm) | 28 |
| Maximum Seated Height | (mm) | 76 |
| Approx. Nett Weight | (ozs) | 1 |
| Approx. Packed Weight | (ozs) | $1\frac{1}{2}$ |

MOUNTING POSITION—Unrestricted.

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TYPICAL OPERATION

| | | |
|-------------------------------------|-----|-----|
| H.T. Supply Voltage (volts) | 100 | 200 |
| Target Voltage (volts) | 100 | 200 |
| Target Current at $V_{g1} = 0$ (mA) | 0.1 | 0.4 |

1st Section

(a'—for weak signals)

| | | | |
|---------------------------------|------|------|------|
| Anode Load Resistance (megohms) | 2 | 2 | 2 |
| Grid Voltage (volts) | 0 | -2 | -3 |
| Anode Current (mA) | 0.05 | 0.03 | 0.06 |
| Shadow Angle (degrees) | 77 | 15 | 25 |

2nd Section

(a''—for strong signals)

| | | | |
|---------------------------------|-----|------|------|
| Anode Load Resistance (megohms) | 1 | 1 | 1 |
| Grid Voltage (volts) | 0 | -10 | -20 |
| Anode Current (mA) | 0.1 | 0.04 | 0.08 |
| Shadow Angle (degrees) | 77 | 5 | 10 |

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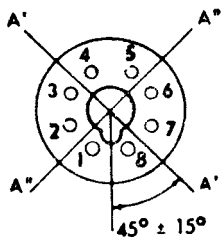
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BASE—International Octal (108).



Viewed from free end of pins

POSITION OF SHADOW

A'—A' Centre line of a' shadow.

A''—A'' Centre line of a'' shadow.

CONNECTIONS

| | | |
|-------|---------------------|-----|
| Pin 1 | Heater | h |
| Pin 2 | Internal Connection | IC |
| Pin 3 | Anode 2 | a'' |
| Pin 4 | Target | t |
| Pin 5 | Grid | g |
| Pin 6 | Anode 1 | a' |
| Pin 7 | Cathode | k |
| Pin 8 | Heater | h |

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TYPICAL CIRCUIT

