



## ELECTRONIC TUBE REFERENCE

## AC2PENDD

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-PENTODE

Mazda combination tube containing two detector/AVC diodes and an indirectly heated output pentode on a common cathode sleeve. It integrates radio detection, automatic-volume-control, and audio power-output functions.

## GENERAL CHARACTERISTICS

|                     |                |                      |               |
|---------------------|----------------|----------------------|---------------|
| BASE DESIGNATION    | —              | BASE PINS            | 7             |
| NOMINAL HEATER      | 4 V / 2 A      | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect       | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Common cathode | SECTION CONSTRUCTION | Dissimilar    |

## SECTION RATINGS

## SECTION1 Diode

*No fixed ratings recorded.*

*Detector/AVC diode on common cathode sleeve.*

## SECTION2 Diode

*No fixed ratings recorded.*

*Detector/AVC diode on common cathode sleeve.*

| SECTION3 Pentode               |         |
|--------------------------------|---------|
| TRANSCONDUCTANCE               | 0.008 S |
| MAXIMUM PLATE VOLTAGE          | 250 V   |
| MAXIMUM SCREEN VOLTAGE         | 250 V   |
| MAXIMUM PLATE DISSIPATION      | 10 W    |
| <i>Output pentode section.</i> |         |

Mazda AC2/PEN.DD combines two detector/AVC diodes with an indirectly heated output pentode on a common cathode sleeve. The pentode is rated for 250 V anode and screen operation.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1960 Mazda

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1960 MAZDA

## Section 3 · Pentode

| OTHER                            |                 |                  |
|----------------------------------|-----------------|------------------|
| PARAMETER                        | PUBLISHED VALUE | CONDITION / NOTE |
| Anode voltage                    | 250 V           | —                |
| Screen voltage                   | 250 V           | —                |
| Grid bias                        | -5.3 V          | —                |
| Anode current                    | 32 mA           | —                |
| Screen current                   | 6 mA            | —                |
| Optimum load resistance          | 6700 ohm        | —                |
| Self-bias resistance             | 140 ohm         | —                |
| Maximum undistorted power output | 3.5 W           | —                |
| Input swing RMS                  | 3.2 V           | —                |

## TUBE TINKER

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