



7AD7

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# POWER PENTODE

## GENERAL DATA

### Electrical:

Heater, for Unipotential Cathode:

Voltage . . . . .	6.3 <sup>□</sup>	ac or dc volts
Current . . . . .	0.6 <sup>□□</sup>	amp

Direct Interelectrode Capacitances:<sup>○</sup>

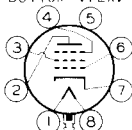
Grid No.1 to Plate . . .	0.030 max.	μμf
Input . . . . .	11.5	μμf
Output . . . . .	7.5	μμf

<sup>○</sup> With external shield connected to cathode.

### Mechanical:

Mounting Position . . . . .	Any
Maximum Overall Length . . . . .	3-5/32"
Maximum Seated Length . . . . .	2-5/8"
Maximum Diameter . . . . .	1-3/16"
Bulb . . . . .	T-9
Base . . . . .	Lock-In 8-Pin
Basing Designation for BOTTOM VIEW . . . . .	8V

Pin 1 - Heater  
 Pin 2 - Plate  
 Pin 3 - Grid No.2  
 Pin 4 - Grid No.3  
 Pin 5 - Internal Shield



Pin 6 - Grid No.1  
 Pin 7 - Cathode  
 Pin 8 - Heater

Plug - Base Shell

### AMPLIFIER - Class A<sub>1</sub>

### Maximum Ratings, Design-Center Values:

PLATE VOLTAGE . . . . .	300 max.	volts
GRID-No.2 (SCREEN) VOLTAGE . . . . .	150 max.	volts
GRID-No.2 SUPPLY VOLTAGE . . . . .	300 max.	volts
PLATE DISSIPATION . . . . .	10 max.	watts
GRID-No.2 DISSIPATION . . . . .	1.2 max.	watts
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive bias value . . . . .	0 max.	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

### Typical Operation and Characteristics:

Plate Voltage . . . . .	300	volts
Grid No.3 (Suppressor) . . . . .	Connected to cathode at socket	
Grid-No.2 Voltage . . . . .	150	volts
Cathode-Bias Resistor . . . . .	68	ohms
Plate Resistance (Approx.) . . . . .	0.3	megohm
Transconductance . . . . .	9500	μmhos
Plate Current . . . . .	28	ma
Grid-No.2 Current . . . . .	7	ma

<sup>□</sup> Nominal voltage = 7.0 volts,

<sup>□□</sup> Nominal current = 0.16 ampere.