



7L7

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SHARP-CUTOFF PENTODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3 [□]	ac or dc volts
Current	0.3 ^{□□}	amp

Direct Interelectrode Capacitances:[○]

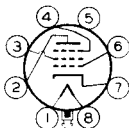
Grid No.1 to Plate	0.01 max.	μf
Input	8.0	μf
Output	6.5	μf

[○] With external shield connected to cathode and base shell.

Mechanical:

Mounting Position	Any
Maximum Overall Length	2-25/32"
Maximum Seated Length	2-1/4"
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 A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max.	volts
GRID-No.2 (SCREEN) VOLTAGE	125 max.	volts
GRID-No.2 SUPPLY VOLTAGE	300 max.	volts
PLATE DISSIPATION	4.0 max.	watts
GRID-No.2 DISSIPATION	0.4 max.	watt
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	100	250	volts
Grid No.3 & Internal Shield	Connected to cathode at		socket
Grid No.2 Voltage	100	100	volts
Grid No.1 Voltage	-1	-1.5	volts
Cathode-Bias Resistor	125	250	ohms
Plate Resistance (Approx.)	0.1	1.0	megohm
Transconductance	3000	3100	μmhos

[□] Nominal voltage = 7.0 volts.
^{□□} Nominal current = 0.32 ampere.

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(continued from preceding page)

Grid-No.1 Bias (Approx.) for cathode-current cutoff . . .	-6	-6	volts
Plate Current.	5.5	4.5	ma
Grid-No.2 Current.	2.4	1.5	ma