



7L7

SHARP-CUTOFF PENTODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 6.3[□] ac or dc voltsCurrent. 0.3^{□□} ampDirect 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

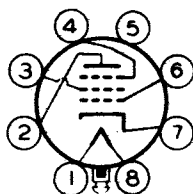
Basing Designation for BOTTOM VIEW 8V

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
ShellAMPLIFIER - 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

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MEDIUM-MU TWIN TRIODE

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathodes:

Voltage.	6.3 [□]	ac or dc volts
Current.	0.6 ^{□□}	amp

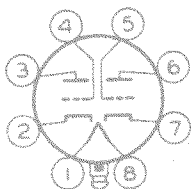
Direct Interelectrode Capacitances:[○]

	<u>Triode No.1</u>	<u>Triode No.2</u>	
Grid to Plate.	3.0	3.0	μf
Input.	3.4	2.9	μf
Output	2.0	2.4	μf

[○] 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	8AC

Pin 1-Heater
 Pin 2-Cathode of
 Triode No.2
 Pin 3-Plate of
 Triode No.2
 Pin 4-Grid of
 Triode No.2



Pin 5-Grid of
 Triode No.1
 Pin 6-Plate of
 Triode No.1
 Pin 7-Cathode of
 Triode No.1
 Pin 8-Heater
 Plug -Base Shell

*Maximum Ratings, Characteristics, and Typical Operating
 Conditions are the same as those for Type 6SN7-GT*

[□] Nominal voltage = 7.0 volts.^{□□} Nominal current = 0.64 ampere.

OCTOBER 15, 1947

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA