

Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Current	0.450 ± 0.030	amp
Voltage (AC or DC) at heater amp- eres = 0.450	4.2	volts
Warm-up time (Average)	11	sec
Peak heater-cathode voltage:		
Heater negative with respect to cathode	200 max.	volts
Heater positive with respect to cathode	200 max.	volts
Direct Interelectrode Capacitances:		

	<i>Without External Shield</i>	<i>With External Shield^a</i>	
Grid No.1 to plate	0.031	0.024	pf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater	8.7	8.7	pf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater	2.15	3.0	pf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage	125	volts
Grid No.3 (Suppressor Grid).	<i>Connected to cathode at socket</i>	
Grid No.2 Supply Voltage	125	volts
Cathode Resistor	56	ohms
Plate Resistance (Approx.)	0.156	megohm
Transconductance	15000	μmhos
Plate Current	13	ma
Grid No.2 Current	3.2	ma
Grid No.1 Voltage (Approx.) for transconductance (μmhos) = 100	-3	volts

Mechanical:

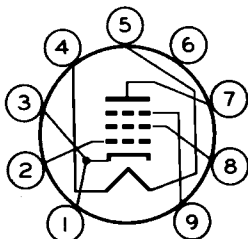
Operating Position	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length	2-3/16"
Maximum Seated Length	1-15/16"
Length, Base Seat to Bulb Top (Excluding tip)	1-9/16" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)



4HM6

Basing Designation for BOTTOM VIEW. 9PM

- Pin 1 -Cathode
Pin 2 -Grid No.1
Pin 3 -Cathode
Pin 4 -Heater
Pin 5 -Heater
Pin 6 -No Internal
 Connection



- Pin 7 -Plate
Pin 8 -Grid No.2
Pin 9 -Grid No.3,
Internal
Shield

AMPLIFIER — CLASS A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 250 max. volts

GRID No.2 (SCREEN-GRID) SUPPLY VOLTAGE . . .	250 max.	volts
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GRID No.2 VOLTAGE. See *Grid-No.2 Input*
Rating Chart at front of Receiving Tube Section

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Negative-bias value. 50 max. volts

CATHODE CURRENT. 25 max. ma

GRID No.2 INPUT:

For grid-No.2 voltages up to 125 volts . . 0.6 max. watt

For grid-No.2 voltages between 125 and

250 volts. See Grid-No.2 Input

Rating Chart at front of Receiving Tube Section

PLATE DISSIPATION. 2.5 max. watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation 0.25 max. megohm

For cathode-bias operation 1 max. megohm

^a With JEDEC shield No.315 connected to ground.

