

Sharp-Cutoff Pentode

9-PIN MINIATURE TYPE
FRAME-GRID CONSTRUCTION

For Use as an IF-Amplifier Tube in TV
Receivers. No External Shield Required.

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	6.3 ± 0.6	volts
Current at heater volts = 6.3	0.300	amp
Peak heater-cathode voltage:		
Heater negative with respect to cathode.	200	max. volts
Heater positive with respect to cathode.	200 ^a	max. volts
Direct Interelectrode Capacitances: ^b		
Grid No.1 to plate.	0.019	max. pf
Grid No.1 to cathode, grid No.3 & internal shield, grid No.2, and heater.	8.2	pf
Plate to cathode, grid No.3 & internal shield, grid No.2, and heater.	3.0	pf

Characteristics, Class A₁ Amplifier:

Plate Supply Voltage.	125	volts
Grid No.3	<i>Connected to cathode at socket</i>	
Grid-No.2 Supply Voltage.	125	volts
Cathode Resistor.	56	ohms
Plate Resistance (Approx.).	0.18	megohm
Transconductance.	15000	μmhos
Plate Current	13	ma
Grid-No.2 Current	3.2	ma
Grid-No.1 Voltage (Approx.) for plate μa = 100.	-3	volts

Mechanical:

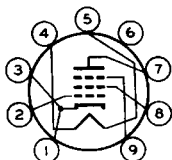
Operating Position.	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length.	2-3/16"
Maximum Seated Length	1-15/16"
Length, Base Seat to Bulb Top (Excluding tip).	1-9/16" ± 3/32"
Diameter.	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb.	T6-1/2
Base.	Small-Button Noval 9-Pin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



6JC6

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 330 max. volts
- GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE:
 - Positive value 0 max. volts
- GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. . . 330 max. volts
- GRID-No.2 VOLTAGE See *Grid-No.2 Input Rating Chart*
at front of Receiving Tube Section
- GRID-No.1 (CONTROL-GRID) VOLTAGE:
 - Positive-bias value 0 max. volts
- GRID-No.2 INPUT:
 - For grid-No.2 voltages up to
165 volts 0.6 max. watt
 - For grid-No.2 voltages between
165 and 330 volts See *Grid-No.2 Input Rating Chart*
at front of Receiving Tube Section
- PLATE DISSIPATION 2.5 max. watts

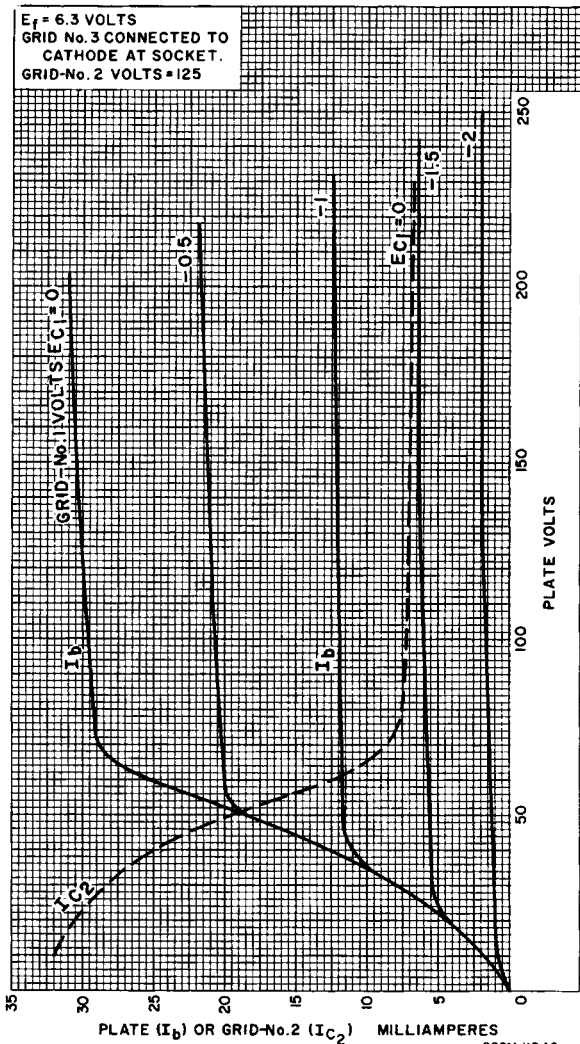
Maximum Circuit Values:

- Grid-No.1-Circuit Resistance:
 - For fixed-bias operation. 0.25 max. megohm
 - For cathode-bias operation. 1 max. megohm

^a The dc component must not exceed 100 volts.
^b without external shield.



AVERAGE CHARACTERISTICS

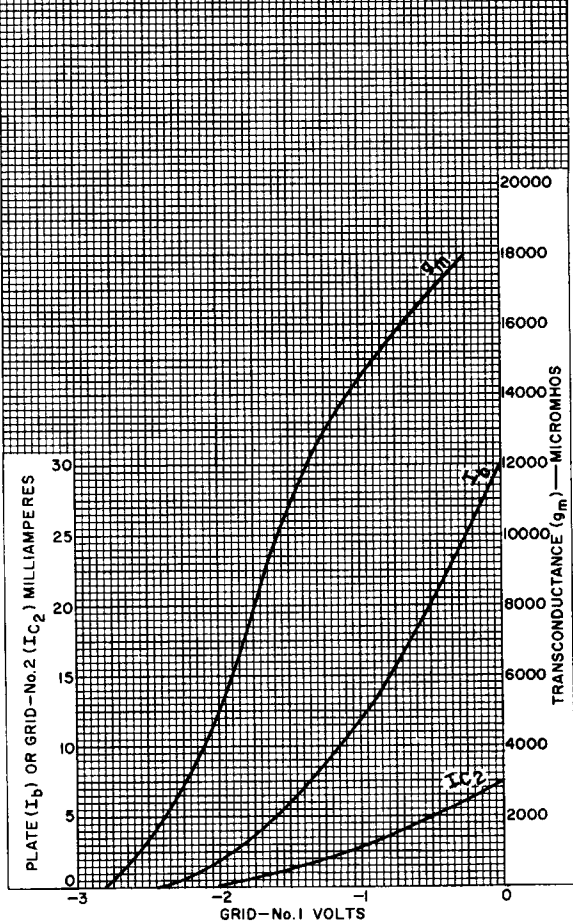


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AVERAGE CHARACTERISTICS

$E_f = 6.3$ VOLTS
 PLATE VOLTS = 125
 GRID No. 3 CONNECTED TO
 CATHODE AT SOCKET.
 GRID-No. 2 VOLTS = 125



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