

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 *Connected to cathode at socket*

Grid-No.2 Supply Voltage. 125 volts

Cathode Resistor. 56 ohms

Plate Resistance (Approx.). 0.18 megohm

Transconductance. 15000 μ mhos

Plate Current 13 ma

Grid-No.2 Current 3.2 ma

Grid-No.1 Voltage (Approx.) for
plate μ a = 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" $\pm$ 3/32"

Diameter. 0.750" to 0.875"

Dimensional Outline See *General Section*

Bulb. T6-1/2

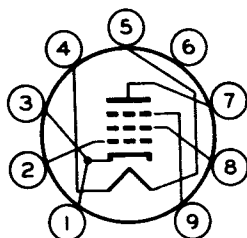
Base. Small-Button Noval 9-Pin (JEDEC No.E9-1)



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:

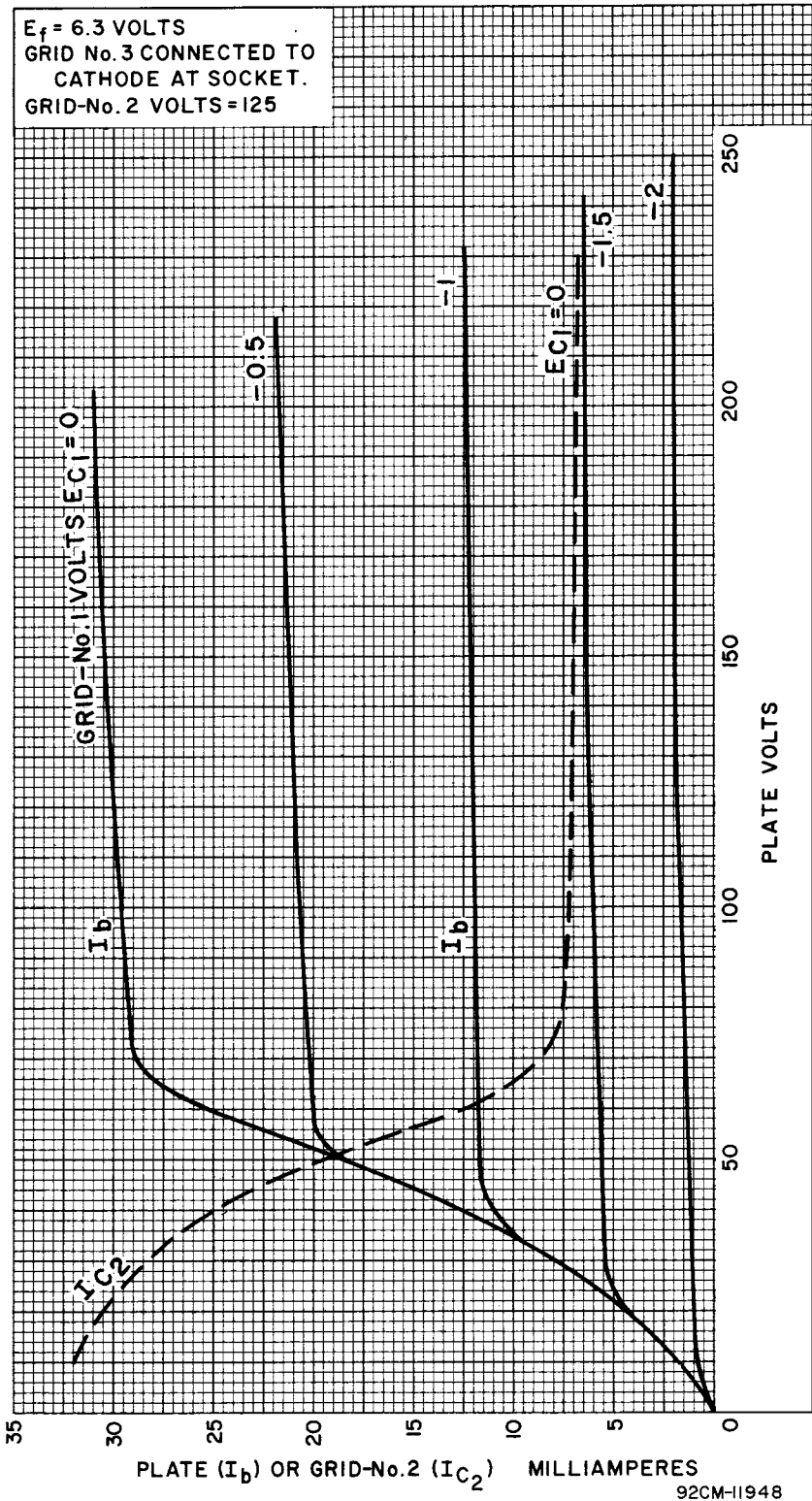
Grid-No.1-Circuit Resistance:
 For fixed-bias operation. 0.25 max. megohm
 For cathode-bias operation. 1 max. megohm

^a The dc component must not exceed 100 volts.

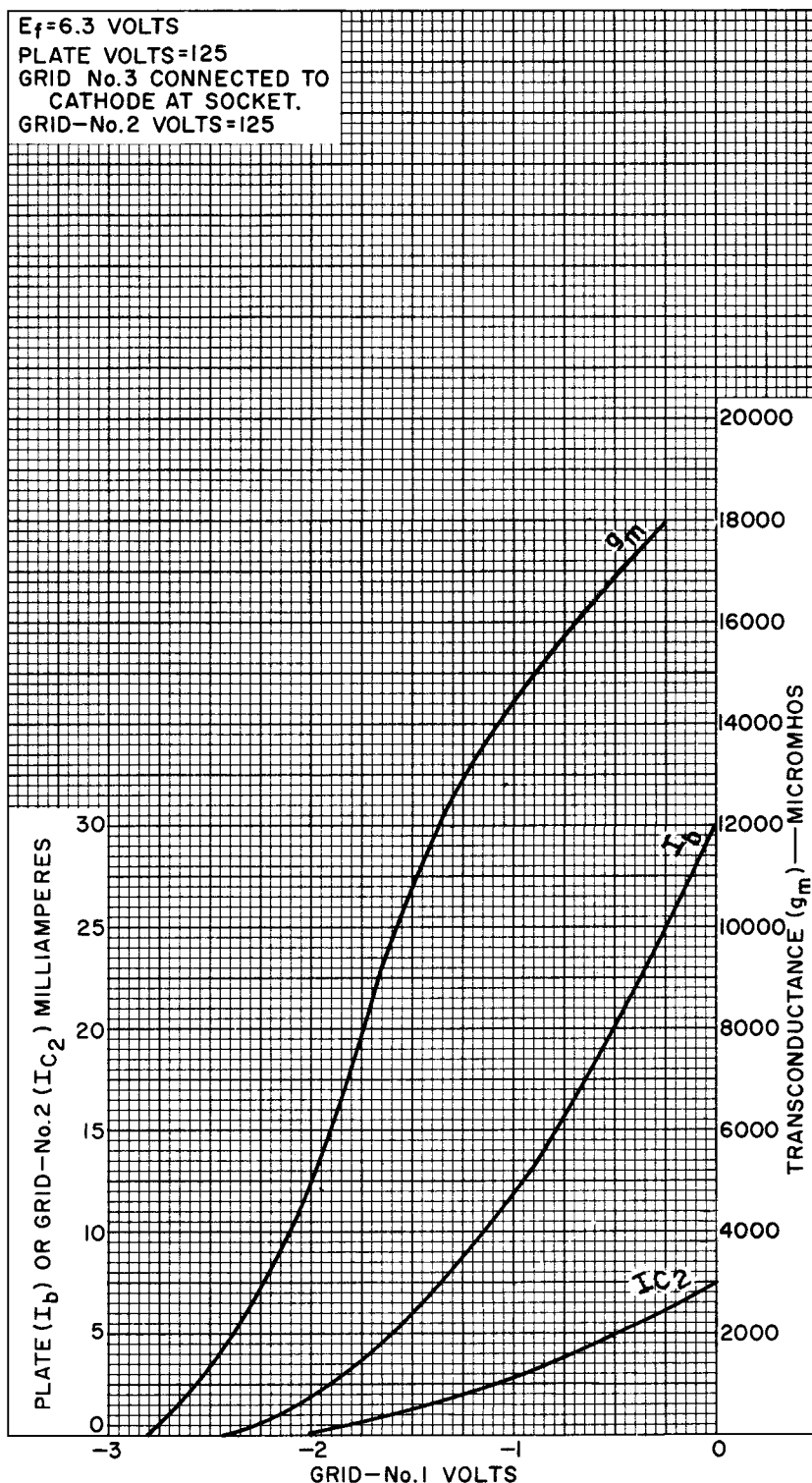
^b without external shield.



AVERAGE CHARACTERISTICS



AVERAGE CHARACTERISTICS



92CM-11949