

Sharp-Cutoff Pentode

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	20.0 ± 1.0	volts
Current at heater volts = 20.0	0.050	amp
Peak heater-cathode voltage:		
Heater negative with respect to cathode.	100 max.	volts
Heater positive with respect to cathode.	100 max.	volts

Direct Interelectrode Capacitances:^a

Grid No.1 to plate.	0.01	pf
Grid No.1 to cathode & grid No.3 & internal shield, grid No.2, and heater.	4.0	pf
Plate to cathode & grid No.3 & internal shield, grid No.2, and heater.	2.8	pf

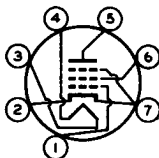
Characteristics, Class A₁ Amplifier:

Plate Supply Voltage.	120	volts
Grid-No.2 Supply Voltage.	120	volts
Cathode Resistor ^b	200	ohms
Plate Resistance (Approx.)	0.34	megohm
Transconductance.	5000	μmhos
Plate Current	7	ma
Grid-No.2 Current	2.2	ma
Grid-No.1 Voltage for maximum plate μa = 200.	-10	volts

Mechanical:

Operating Position.	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length.	1-3/4"
Maximum Seated Length	1-1/2"
Length, Base Seat to Bulb Top (Excluding tip).	1-1/8" ± 3/32"
Diameter.	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
Bulb.	T6-1/2
Base.	Small-Button Miniature 7-Pin (JEDEC No.E7-1)
Basing Designation for BOTTOM VIEW.	7BD

Pin 1-Grid No.1
Pin 2-Cathode,
Grid No.3
Pin 3-Heater
Pin 4-Heater



Pin 5-Plate
Pin 6-Grid No.2
Pin 7-Cathode,
Grid No.3



408A

AMPLIFIER — Class A₁

Maximum Ratings, Absolute-Maximum Values:

PLATE VOLTAGE	180 max. volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. . .	180 max. volts
GRID-No.2 VOLTAGE	See <i>Grid-No.2 Input Rating Chart</i> 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 90 volts.	0.5 max. watt
For grid-No.2 voltages be- tween 90 and 180 volts. .See <i>Grid-No.2 Input Rating Chart</i> at front of Receiving Tube Section	
PLATE DISSIPATION	1.7 max. watts

^a With external shield JEDEC No.316 connected to cathode.

^b Fixed-bias operation is not recommended.

