

Power Pentode

7-PIN MINIATURE

Electrical:

Heater Ratings and Characteristics:

Voltage (AC or DC)	6.3 ± 0.6 volts
Current at heater volts = 6.3	0.380 amp
Peak heater-cathode voltage:	
Heater negative with respect to cathode	200 max. volts
Heater positive with respect to cathode	200 ^a max. volts

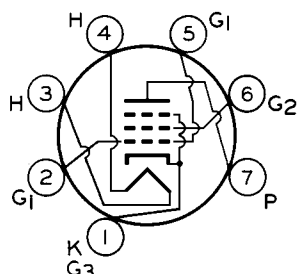
Direct Interelectrode Capacitances:^b

Grid No.1 to plate.	0.24	pf
Input: G1 to (K+G3,G2,H)	8.5	pf
Output: P to (K+G3,G2,H).	3.8	pf

Mechanical:

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

- Pin 1—Cathode, Grid No.3
- Pin 2—Grid No.1
- Pin 3—Heater
- Pin 4—Heater
- Pin 5—Grid No.1
- Pin 6—Grid No.2
- Pin 7—Plate



Bulb Temperature (At hottest point on bulb surface). 200° C

AMPLIFIER —Class A₁

Maximum Ratings, Design-Maximum Values:

Plate Voltage	300 max. volts
Grid-No.2 (Screen-Grid) Voltage	300 max. volts
Grid-No.1 (Control-Grid) Voltage:	
Positive-bias value	0 max. volts
Average Cathode Current	30 max. ma
Grid-No.2 Input	1.1 max. watts
Plate Dissipation	4.8 max. watts

Typical Operation and Characteristics:

	No Bypassing	Bypass Capacitor	
Plate Supply Voltage.	250	250	volts
Grid-No.2 Supply Voltage.	250	250	volts



6GZ5

	<i>No</i> <i>Bypassing</i>	<i>Bypass</i> <i>Capacitor</i>	
Cathode Resistor.	270	270	ohms
Peak AF Grid-No.1 Voltage	9.8	2	volts
Zero-Signal Plate Current	16	16	ma
Max.-Signal Plate Current	16	16	ma
Zero-Signal Grid-No.2 Current	2.7	2.7	ma
Max.-Signal Grid-No.2 Current	5	5	ma
Plate Resistance (Approx.)	—	0.15	megohm
Transconductance.	—	8400	μmhos
Load Resistance	15000	15000	ohms
Total Harmonic Distortion	10	10	percent
Power Output.	1.8	1.1	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:	
For fixed-bias operation.	0.5 max. megohm
For cathode-bias operation.	1 max. megohm

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