

6GZ5

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

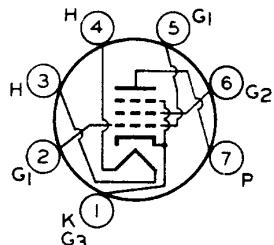
Direct Interelectrode Capacitances:^b

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 General Section
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	Bypass
		Capacitor
Plate Supply Voltage.	250	250
Grid-No.2 Supply Voltage.	250	250



RADIO CORPORATION OF AMERICA
Electronic Components and Devices

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DATA
6-64

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	<i>No</i>	<i>Bypass</i>	
	<i>Bypassing 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	μ hos
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.