

# 6CW5

## Beam Power Tube

### Electrical:

#### Heater Characteristics and Ratings:

Voltage (AC or DC) . . . . .	6.3 ± 0.6	volts
Current at 6.3 volts . . . . .	0.760	amp

#### Maximum Heater-Cathode Voltage:

Heater negative with respect to cathode:		
Peak . . . . .	330	volts
DC Component . . . . .	220	volts

Heater positive with respect to cathode:		
Peak . . . . .	330	volts
DC Component . . . . .	220	volts

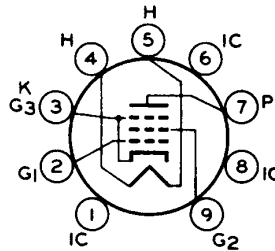
#### Direct Interelectrode Capacitances:

Input: G1 to (K + G3, G2, H) . . . . .	13.0	pf
Output: P to (K + G3, G2, H) . . . . .	6.8	pf
Plate to grid No.1 . . . . .	0.6 max.	pf
Grid No.1 to heater . . . . .	0.25 max.	pf

### Mechanical:

Operating Position . . . . .	Any
Type of Cathode . . . . .	Coated Unipotential
Maximum Overall Length . . . . .	3-1/16"
Maximum Seated Length . . . . .	2-13/16"
Length, Base Seat to Bulb Top (Excluding tip) . . . . .	2-7/16" ± 3/32"
Diameter . . . . .	0.750" to 0.875"
Dimensional Outline (JEDEC No.6-4) . . . . .	See <b>General Section</b>
Bulb . . . . .	T6-1/2
Base . . . . .	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW . . . . .	9CV

- Pin 1 - Do Not Use
- Pin 2 - Grid No.1
- Pin 3 - Cathode, Grid No.3
- Pin 4 - Heater
- Pin 5 - Heater
- Pin 6 - Do Not Use
- Pin 7 - Plate
- Pin 8 - Do Not Use
- Pin 9 - Grid No.2



### AMPLIFIER — Class A<sub>1</sub>

#### Characteristics:

Plate Voltage . . . . .	170	volts
Grid-No.2 (Screen-Grid) Voltage . . . . .	170	volts
Grid-No.1 (Control-Grid) Voltage . . . . .	-12.5	volts
Mu-Factor, Grid No.2 to Grid No.1 . . . . .	8	
Plate Resistance (Approx.) . . . . .	26000	ohms
Transconductance . . . . .	11000	μmhos
Plate Current . . . . .	70	ma
Grid-No.2 Current . . . . .	3.5	ma



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## Maximum Ratings, Design-Maximum Values:

Plate Supply Voltage . . . . .	600	volts
Plate Voltage. . . . .	275	volts
Grid No.2 Supply Voltage . . . . .	600	volts
Grid No.2 Voltage. . . . .	220	volts
Average Cathode Current. . . . .	110	ma
Grid No.2 Input:		
Peak . . . . .	7	watts
Average. . . . .	2.1	watts
Plate Dissipation. . . . .	14	watts

## Maximum Circuit Values:

Grid-No.1-Circuit Resistance . . . . .	1	megohm
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## VERTICAL-DEFLECTION AMPLIFIER

### Maximum Ratings, Design-Maximum Values:

*For operation in a 525-line, 30-frame system<sup>a</sup>*

DC Plate Voltage . . . . .	275	volts
Peak Positive-Pulse Plate Voltage. . . . .	2200 <sup>b</sup>	volts
DC Grid-No.2 Voltage . . . . .	275	volts
Peak Negative-Pulse Grid-No.1 Voltage. . . . .	250	volts
Cathode Current:		
Peak . . . . .	240	ma
Average. . . . .	110	ma
Grid No.2 Input. . . . .	2.1	watts
Plate Dissipation. . . . .	12	watts

### Maximum Circuit Values:

Grid-No.1-Circuit Resistance . . . . .	2.2	megohms
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<sup>a</sup> As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

<sup>b</sup> Maximum pulse duration 6 percent of a cycle with a maximum of 1.2 milliseconds.

