

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 General Section
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

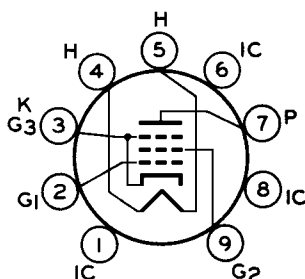
Pin 5—Heater

Pin 6—Do Not Use

Pin 7—Plate

Pin 8—Do Not Use

Pin 9—Grid No.2

AMPLIFIER — Class A₁

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



6CW5

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^a

DC Plate Voltage	275	volts
Peak Positive-Pulse Plate Voltage.	2200 ^b	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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^a As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

^b Maximum pulse duration 6 percent of a cycle with a maximum of 1.2 milliseconds.

