



6CB5-A

BEAM POWER TUBE

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GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 ± 10%	volts
Current	2.5	amp

Direct Interelectrode Capacitances (Approx.):⁰

Grid No.1 to plate.	0.4	μf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	22	μf
Plate to cathode & grid No.3, grid No.2, and heater	10	μf

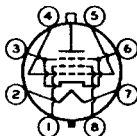
Characteristics, Class A₁ Amplifier:

Plate Voltage	75	175	volts
Grid-No.2 Voltage	150	175	volts
Grid-No.1 Voltage	0	-30	volts
Mu-Factor, Grid No.2 to Grid No.1	-	3.8	
Plate Resistance (Approx.)	-	5000	ohms
Transconductance.	-	8800	μmhos
Plate Current	460*	90	ma
Grid-No.2 Current	42*	6	ma
Grid-No.1 Voltage (Approx.) for plate ma. = 1	-	-60	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	5"
Seated Length	4-1/4" ± 3/16"
Maximum Diameter.	1-23/32"
Bulb.	T12
Cap.	Small (JEDEC No.C1-1)
Base.	Short Jumbo-Shell Octal 8-Pin with External Barriers (JEDEC Group 1, No.88-71), or Short Medium-Shell Octal 8-Pin with External Barriers, Style B (JEDEC Group 1, No.88-118)
Basing Designation for BOTTOM VIEW.	8GD

Pin 1-Grid No.2
Pin 2-Heater
Pin 3-Cathode,
Grid No.3
Pin 4-Grid No.1
Pin 5-Grid No.1



Pin 6-Cathode,
Grid No.3
Pin 7-Heater
Pin 8-Grid No.2
Cap-Plate

HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

For operation in a 525-line, 30-frame system[□]

DC (including boost) PLATE VOLTAGE. . .	880 max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE*. . .	6800 max.	volts

← Indicates a change.



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PEAK NEGATIVE-PULSE PLATE VOLTAGE . . .	1650	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE . .	220	max.	volts
DC GRID-No.1 (CONTROL-GRID) VOLTAGE . .	-55	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE .	220	max.	volts
CATHODE CURRENT:			
Peak	850	max.	ma
DC	240	max.	ma
GRID-No.2 INPUT	4	max.	watts
PLATE DISSIPATION†.	26	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200▲	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface).			
	220	max.	°C

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For grid-resistor-bias operation. . . 0.47 max. megohm

○ Without external shield.

* These values can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

□ As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

* The duration of the voltage pulse must not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

† An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

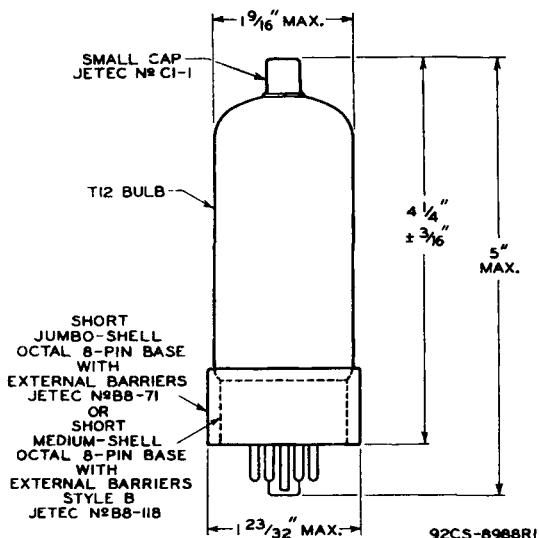
▲ The dc component must not exceed 100 volts.



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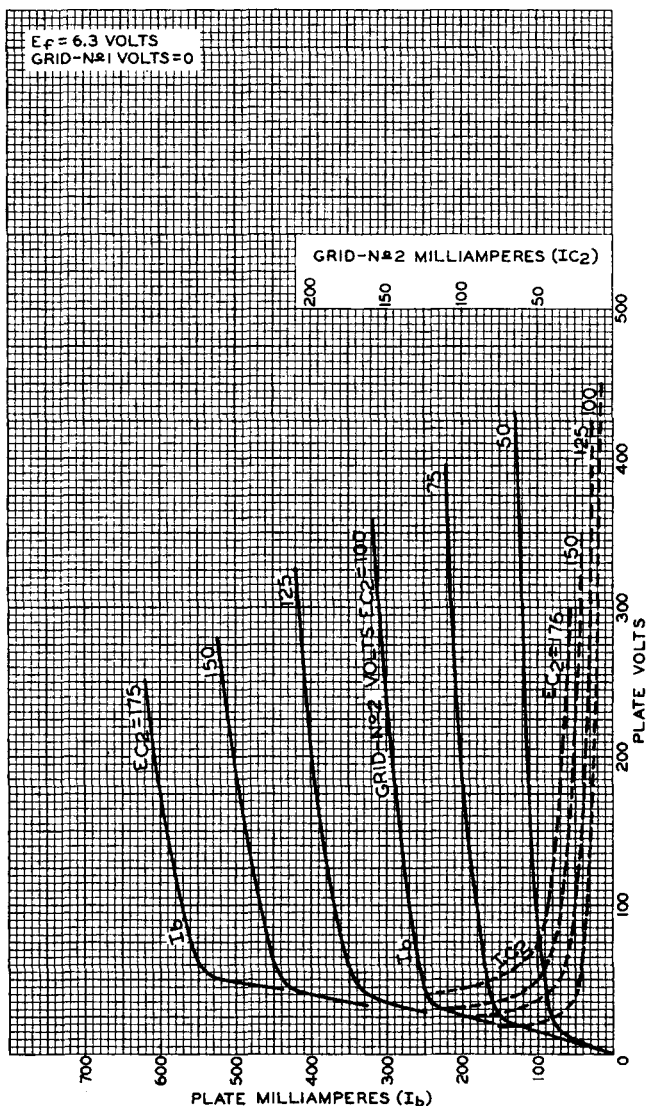


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AVERAGE CHARACTERISTICS





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