

Class A₁ Amplifier

CHARACTERISTICS

Plate Voltage	60	175	volts
Grid-No.2 (Screen-Grid) Voltage	100	175	volts
Grid-No.1 (Control-Grid) Voltage	0	-30	volts
Mu-Factor, Grid No.2 to Grid No.1	—	3.9	
Plate Resistance (Approx.)	—	7200	ohms
Transconductance	—	7700	μmhos
Plate Current	230*	5.5	mA
Grid-No.2 Current	21*	5.5	mA
Grid-No.1 Voltage (Approx.) for plate current of 1 mA	—	-55	volts

* This value can be measured by a method involving a recurrent waveform such that the maximum ratings of the tube will not be exceeded.

Horizontal-Deflection Amplifier

For operation in a 525-line, 30-frame system

MAXIMUM RATINGS (Design-Center Values)

DC Plate Voltage	700	volts
Peak Positive-Pulse Plate Voltage# (Absolute Maximum)	7000*	volts
Peak Negative-Pulse Plate Voltage	1500	volts
DC Grid-No.2 (Screen-Grid) Voltage	175	volts
Peak Negative-Pulse Grid-No.1 Voltage	700	volts
Peak Cathode Current	200	mA
Average Cathode Current	-200	mA
Plate Dissipation†	20	watts
Grid-No.2 Input	3	watts
Bulb Temperature (At hottest point)	225	°C

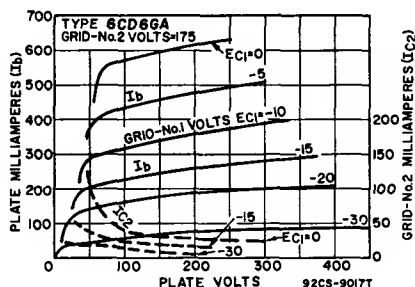
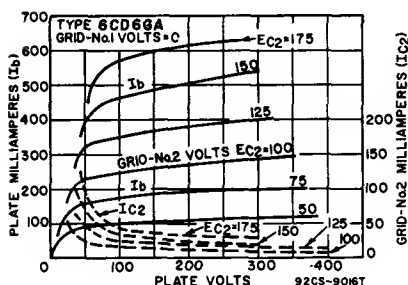
MAXIMUM CIRCUIT VALUE

Grid-No.-Circuit Resistance, for grid-resistor-bias operation 0.47 megohm

Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

* Under no circumstances should this absolute value be exceeded.

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

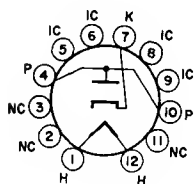


Refer to chart at end of section.

6CE5

Refer to chart at end of section.

6CF6



12FX

HALF-WAVE VACUUM RECTIFIER

6CG3 6CG3/6CD3

19CG3, 25CG3

Duodecar type used as damper diode in horizontal-deflection circuits of color and black-and-white television receivers. Outlines section, 8F; requires duodecar 12-contact socket. Types 19CG3 and 25CG3 are identical with type 6CG3 except for heater ratings.