

6GV5

Beam Power Tube

DUODECAR TYPE

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC) 6.3 ± 0.6 volts

Current at heater volts = 6.3. 1.200 amp

Peak heater-cathode voltage:

Heater negative with respect to cathode. 200 max. volts

Heater positive with respect to cathode. 200^amax. volts

Direct Interelectrode Capacitances (Approx.):^b

G1 to P. 0.6 pf

Input: G1 to (K+G3,G2,H). 16 pf

Output: P to (K+G3,G2,H) 7.0 pf

Mechanical:

Operating Position Any

Type of Cathode. Coated Unipotential

Maximum Overall Length 3.625"

Seated Length. 2.000" to 2.250"

Diameter 1.437" to 1.563"

Dimensional Outline. See General Section

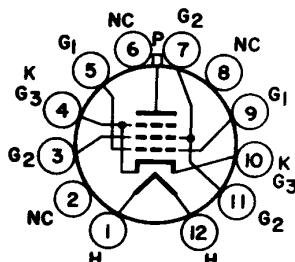
Bulb T12

Cap. Skirted Miniature (JEDEC No.C1-3)

Base Large-Button Duodecar 12-Pin (JEDEC No.E12-74)

Basing Designation for BOTTOM VIEW 12DR

- Pin 1 - Heater
- Pin 2 - No Internal Connection
- Pin 3 - Grid No.2
- Pin 4 - Cathode, Grid No.3
- Pin 5 - Grid No.1
- Pin 6 - Same as Pin 2
- Pin 7 - Grid No.2
- Pin 8 - Same as Pin 2
- Pin 9 - Grid No.1
- Pin 10 - Same as Pin 4
- Pin 11 - Grid No.2
- Pin 12 - Heater Cap - Plate



Characteristics, Class A₁ Amplifier:

Triode Connec- tion^c

Plate Voltage.	5000	60	250	150	volts
Grid-No.2 Voltage.	150	150	150	150	volts
Grid-No.1 Voltage.	-	0	-22.5	-22.5	volts
Amplification Factor	-	-	-	4.4	
Plate Resistance (Approx.)	-	-	18000	-	ohms
Transconductance	-	-	7300	-	μ hos
Plate Current.	-	345 ^d	65	-	ma
Grid-No.2 Current.	-	27 ^d	1.8	-	ma
Grid-No.1 Voltage (Approx.) for plate ma. = 1	-100	-	-42	-	volts



RADIO CORPORATION OF AMERICA
Electronic Components and Devices

Harrison, N. J.

DATA
4-64

6GV5

HORIZONTAL-DEFLECTION AMPLIFIER

Maximum Ratings, Design-Maximum Values:

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

DC Plate-Supply Voltage	770 max.	volts
Peak Positive-Pulse Plate Voltage ^f	6500 max.	volts
Peak Negative-Pulse Plate Voltage	1500 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	330 max.	volts
Cathode Current:		
Peak	550 max.	ma
Average.	175 max.	ma
Grid-No.2 Input.	3.5 max.	watts
Plate Dissipation ^g	17.5 max.	watts
Bulb Temperature (At hottest point on bulb surface).	220 max.	°C

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For grid-resistor-bias operation 1 max. megohm

a The dc component must not exceed 100 volts.

b Without external shield.

c With grid No.2 connected to plate.

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

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

f This rating is applicable where the duration of the voltage pulse does 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.

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

