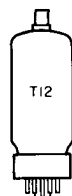
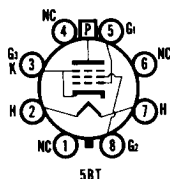


6CD6GA**25CD6GB, 35CD6GA**

Color Television Type

**HORIZONTAL DEFLECTION
AMPLIFIER****Beam Power Pentode**

Construction Octal T-12
 Base 5 or 8 Pin, B5-123 or B8-110
 Top Cap C1-1
 Basing⁽¹⁾ 5BT
 Outline 12-21
 Maximum Diameter 1.563 In.
 Maximum Seated Height 4.250 In.
 Maximum Overall Height 5.000 In.

**ELECTRICAL DATA
HEATER OPERATION**

	35CD6GA	25CD6GB	6CD6GA
Heater Voltage.....	35	25	6.3 Volts
Heater Current	450	600	2500 Ma
Heater Warm-up Time	11	11	— Seconds

Maximum Heater-Cathode Voltage

Heater Negative with Respect to Cathode

Total DC and Peak.....

200 Volts

Heater Positive with Respect to Cathode

DC

100 Volts

Total DC and Peak.....

200 Volts

DIRECT INTERELECTRODE CAPACITANCES

Grid No. 1 to Plate	1.1 Pf
Input	22 Pf
Output	8.5 Pf

RATINGS (Design Center Rating System)**Horizontal Deflection Amplifier⁽²⁾**

DC Plate Supply Voltage (Boost + DC Power Supply) (Max.)	700 Volts
Peak Positive Pulse Plate Voltage (Abs. Max.).....	7000 Volts
Peak Negative Pulse Plate Voltage (Max.)	1500 Volts
Peak Negative Grid No. 1 Voltage (Max.)	200 Volts
DC Grid No. 2 Voltage (Max.)	175 Volts
Plate Dissipation (Max.) ⁽³⁾	20 Watts
Grid No. 2 Dissipation (Max.)	3.0 Watts
Average Cathode Current (Max.).....	200 Ma
Peak Cathode Current (Max.)	700 Ma
Grid No. 1 Circuit Resistance (Max.)	0.47 Megohm
Bulb Temperature (At Hottest Point) (Max.)	225 °C

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	175 Volts
Grid No. 2 Voltage	175 Volts
Grid No. 1 Voltage	-30 Volts
Plate Current	75 Ma
Grid No. 2 Current	5.5 Ma
Transconductance	7700 μ mhos
Amplification Factor ⁽⁴⁾	3.9
Plate Resistance.....	7200 Ohms
Ec1 for Ib = 1.0 Ma (Approx.)	-55 Volts

INSTANTANEOUS PLATE KNEE VALUES

Eb = 60 V, Ec2 = 100 V, and Ec1 = 0 V

Ib = 230 Ma and Ic2 = 21 Ma

NOTES:

- (1) Horizontal operation permitted if plane of Pins 2 and 7 is vertical.
- (2) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.
- (3) In stages operating with grid leak bias, an adequate cathode bias resistor or other suitable means is required to protect the tube in the absence of excitation.
- (4) Amplification factor with tube operation as a triode with 175 Volts on the plate and Grid No. 2 and -30 Volts on Grid No. 1.