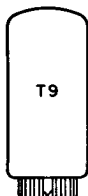
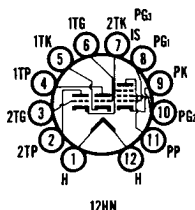


Color Television Type

**VIDEO AMPLIFIER
CATHODE FOLLOWER****6CA11****11CA11****Dissimilar-Double-Triode Pentode**

Construction.....Compactron T-9
 Base E12-70
 Basing.....12HN
 Outline 9-58
 Maximum Diameter 1.188 In.
 Maximum Seated Height 2.000 In.
 Maximum Overall Height 2.375 In.

**ELECTRICAL DATA
HEATER OPERATION****11CA11**

Heater Voltage.....	10.7
Heater Current	600
Heater Warm-up Time	11
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
Total DC and Peak.....	200 Volts
Heater Positive with Respect to Cathode	
DC Component	100 Volts
Total DC and Peak.....	200 Volts

6CA11

6.3 Volts
1020 Ma
— Seconds

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)**Triode (Section 1)**

Grid to Plate	2.7 pf
Input: 1TG to (1TK+2TK+PK+PG3+h+IS)	4.7 pf
Output: 1TP to (1TK+2TK+PK+PG3+h+IS)	4.0 pf

Triode (Section 2)

Grid to Plate	2.1 pf
Input: 2TG to (2TK+PK+PG2+PG3+h+IS)	2.8 pf
Output: 2TP to (2TK+PK+PG2+PG3+h+IS)	2.0 pf

Pentode

Grid No. 1 to Plate	0.13 pf
Input: PG1 to (2TK+PK+PG2+PG3+h+IS)	12.3 pf
Output: PP to (2TK+PK+PG2+PG3+h+IS)	4.6 pf

Coupling

Pentode Plate to Triode Plate (Section 2) (Max.)	0.045 pf
Triode Plate (Section 1) to Triode Plate (Section 2) (Max.)	0.100 pf

RATINGS (Design Maximum Rating System)**Triode No. 1**

Plate Voltage (Max.)	330 Volts
Positive DC Grid Voltage (Max.)	0 Volt
Plate Dissipation (Max.)	1.5 Watts
Grid Circuit Resistance	
With Fixed Bias (Max.)	0.5 Megohm
With Cathode Bias (Max.)	1.0 Megohm

Triode No. 2

Plate Voltage (Max.)	330 Volts
Positive DC Grid Voltage (Max.)	0 Volt
Plate Dissipation (Max.)	1.5 Watts

Grid Circuit Resistance

With Fixed Bias (Max.)	0.5 Megohm
With Cathode Bias (Max.)	1.0 Megohm

Pentode Section

Plate Voltage (Max.)	330 Volts
Screen-Supply Voltage (Max.)	330 Volts
Screen Voltage	See Rating Chart (Gen. Info. Sec.)
Positive DC Grid No. 1 Voltage (Max.)	0 Volt
Plate Dissipation (Max.)	5.0 Watts
Screen Dissipation (Max.)	1.0 Watts

Grid No. 1 Circuit Resistance

With Fixed Bias (Max.)	10,000 Ohms
With Cathode Bias (Max.)	10,000 Ohms

CHARACTERISTICS AND TYPICAL OPERATION**Triode No. 1**

Plate Voltage	200 Volts
Cathode Bias Resistor	270 Ohms

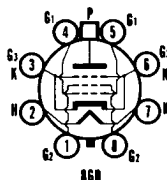
Grid Voltage	-2.0 Volts
Amplification Factor	63
Plate Resistance (Approx.)	10,000 Ohms
Transconductance	6300 μ mhos
Plate Current	7.1 Ma
Grid Voltage (Approx.) Ib + 100 μ a	-6.3 Volts
Triode No. 2	
Plate Voltage	200 Volts
Cathode-Bias Resistor	270 Ohms
Amplification Factor	69
Plate Resistance (Approx.)	12,400 Ohms
Transconductance	5500 μ mhos
Plate Current	7.1 Ma
Grid Voltage (Approx.) Ib = 100 μ a	-5.5 Volts
Pentode Section	
Plate Voltage	40 200 Volts
Screen Voltage	120 120 Volts
Grid No. 1 Voltage	0 — Volt
Cathode Bias Resistor	— 65 Ohms
Plate Resistance (Approx.)	— 490,000 Ohms
Transconductance	— 21,200 μ mhos
Plate Current	68 27.5 Ma
Screen Current	17.6 4.9 Ma
Grid No. 1 Voltage (Approx.) Ib = 100 μ a	— -5.0 Volts

6CB5A

Color Television Type

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

Construction	Octal T-12
Base	Octal 8 Pin
Top Cap	C1-1
Basing	.8GD
Outline	12-21
Maximum Diameter	1.563 In.
Maximum Seated Height	4.250 In.
Maximum Overall Height	5.000 In.

**ELECTRICAL DATA****HEATER OPERATION**

Heater Voltage	6.3 Volts
Heater Current	2500 Ma
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 (Unshielded)

Grid to Plate	0.4 Pf
Input	22 Pf
Output	10 Pf

RATINGS (Design Maximum Rating System)**Horizontal Deflection Amplifier⁽¹⁾**

Plate Supply Voltage (DC and Boost) (Max.)	800 Volts
Peak Positive Pulse Plate Voltage (Abs. Max.)	6800 Volts
Plate Dissipation (Max.)	23 Watts
Peak Negative Pulse Plate Voltage (Max.)	-1650 Volts
DC Grid No. 2 Voltage (Max.)	220 Volts
DC Grid No. 1 Voltage (Max.)	-55 Volts
Grid No. 2 Dissipation (Max.)	4 Watts
Peak Negative Pulse Grid No. 1 Voltage (Max.)	220 Volts
DC Plate Current (Max.)	240 Ma
Grid No. 1 Circuit Resistance (Max.)	0.47 Megohm
Bulb Temperature (At Hottest Point) (Max.)	220 °C