

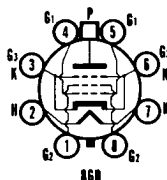
Grid Voltage	-2.0 Volts
Amplification Factor	63
Plate Resistance (Approx.)	10,000 Ohms
Transconductance	6300 μ mhos
Plate Current	7.1 Ma
Grid Voltage (Approx.) Ib + 100 μ a	-6.3 Volts
Triode No. 2	
Plate Voltage	200 Volts
Cathode-Bias Resistor	270 Ohms
Amplification Factor	69
Plate Resistance (Approx.)	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

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	175 Volts
Grid No. 2 Voltage	175 Volts
Grid No. 1 Voltage	-30 Volts
Plate Current	90 Ma
Grid No. 2 Current	6.0 Ma
Transconductance	8800 μ mhos
Plate Resistance	5000 Ohms
Triode Amplification Factor	3.8
Ec1 for Ib = 1 Ma	-60 Volts

PLATE KNEE CHARACTERISTICS

Eb = 75 V, Ec2 = 150 V, Ec1 = 0 V
Ib = 460 Ma, Ic2 = 42 Ma

NOTE:

- (1) 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.

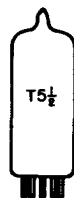
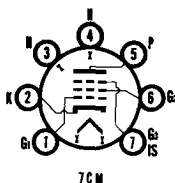
Color Television Type

RF/IF AMPLIFIER**6CB6A**

4CB6, 3CB6/3CF6

Sharp Cutoff Pentode

Construction Miniature T-5½
Base Button 7 Pin
Basing 7CM
Outline 5-2
Maximum Diameter 0.750 In.
Maximum Seated Height 1.875 In.
Maximum Overall Height 2.125 In.

**ELECTRICAL DATA
HEATER OPERATION**

	3CB6/3CF6	4CB6	6CB6A
Heater Voltage	3.15	4.2	6.3 Volts
Heater Current	600	450	300 Ma
Heater Warm-up Time	11	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

	Shielded ⁽¹⁾	Unshielded
Grid No. 1 to Plate (Max.)	0.015	0.025 Pf
Input: g1 to (h + k + g2 + g3 + IS)	6.5	6.5 Pf
Output: p to (h + k + g2 + g3 + IS)	3.0	2.0 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	330 Volts
Grid No. 2 Supply Voltage (Max.)	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Plate Dissipation (Max.)	2.3 Watts
Grid No. 2 Dissipation (Max.)	0.55 Watt

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

Plate Voltage	125 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket
Grid No. 2 Voltage	125 Volts
Cathode Bias Resistor	56 Ohms
Plate Current	13.0 Ma
Grid No. 2 Current	3.7 Ma
Transconductance	8000 μ mhos
Plate Resistance (Approx.)	0.28 Megohm
Grid No. 1 Voltage for Ib = 20 μ a (Approx.)	-6.5 Volts

NOTE:

- (1) External Shield No. 316 connected to Pin 2.