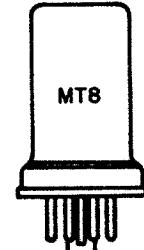
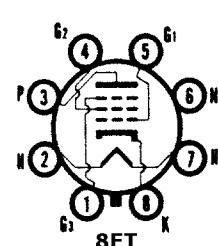


Maximum Signal Plate Current	31	36 Ma
Zero Signal Grid No. 2 Current.....	3.5	4.0 Ma
Maximum Signal Grid No. 2 Current	7.5	11 Ma
Transconductance	8100	9200 μ mhos
Plate Resistance (Approx.)	16,000	15,000 Ohms
Load Resistance	3500	4500 Ohms
Maximum Signal Power Output	1.1	1.5 Watts
Total Harmonic Distortion (Approx.)	5	6 Percent

AUDIO POWER AMPLIFIER**6CA7/EL34****Beam Pentode**

Construction Octal, Metal
 Base Octal 8 Pin
 Basing 8ET
 Outline
 Maximum Diameter 1.500 in.
 Maximum Seated Height 3.875 in.
 Maximum Overall Height 4.438 in.

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

Heater Voltage.....	6.3 Volts
Heater Current	1500 Ma
Maximum Heater Cathode Voltage	
Heater Negative with Respect to Cathode	200 Volts
Total DC and Peak.....	
Heater Positive with Respect to Cathode	100 Volts
DC	200 Volts
Total DC and Peak.....	

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate	1.0 Pf
Input	15.5 Pf
Output	7.2 Pf

RATINGS (Design Center Rating System)

	Triode Conn.	Pentode Conn.
Plate Voltage (Max.)	500	800 Volts
Grid No. 2 Voltage (Max.)	—	425 Volts
Plate Dissipation (Max.)	30	25 Watts
Grid No. 2 Dissipation (Max.)	—	8.0 Watts
Cathode Current (Max.).....	—	150 Ma
Grid No. 1 Circuit Resistance Cathode Bias (Max.) ⁽¹⁾	0.7	0.7 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Operation Push-Pull	Pentode Operation Single Tube
Plate Voltage	400	265 300 Volts
Grid No. 2 Voltage	—	250 300 Volts
Cathode Resistor	220	— 190 Ohms
Grid No. 1 Voltage	—	-13.5 — Volts
A-F Grid Voltage (RMS)	—	8.7 8.2 Volts
Zero Signal Plate Current.....	130	100 83 Ma
Max. Signal Plate Current	142	— — Ma
Zero Signal Grid No. 2 Current.....	—	15 13 Ma
Transconductance	—	11K — μ mhos
Plate Resistance.....	—	15K — Ohms
Load Resistance	5K	2K 3.5K Ohms
Power Output	16.5	11 11 Watts
Total Harmonic Distortion	3	10 10 Percent

Class AB1 Push-Pull (Pentode Operation)

Plate Voltage	375	450	400 Volts
Grid No. 2 Voltage	375	450	400 Volts
Grid No. 2 Resistor	470	1000	800 Ohms

Grid No. 1 Voltage	—	—	-36 Volts
Cathode Resistor	130	232	— Ohms
A-F Grid Voltage (RMS)	20	27	25 Volts
Zero Signal Plate Current.....	150	120	60 Ma
Maximum Signal Plate Current	188	143	221 Ma
Zero Signal Grid No. 2 Current.....	25	20	9 Ma
Maximum Signal Grid No. 2 Current	39	44	46 Ma
Load Resistance (P to P)	3.5K	6.5K	3.5K Ohms
Power Output	35	40	54 Watts
Total Harmonic Distortion	1.7	5.1	1.6 Percent

Class AB1 Push-Pull (Ultra-Linear Operation)**Grid No. 2 at 43% of Primary Winding**

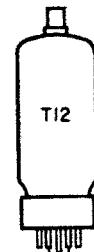
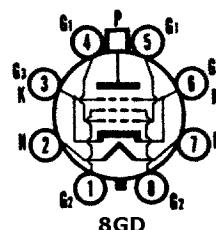
Plate Voltage	430	430 Volts
Cathode Resistor	235	235 Ohms
A-F Grid Voltage (RMS)	17.5	25 Volts
Zero Signal Plate Current.....	125	125 Ma
Maximum Signal Plate Current	130	140 Ma
Zero Signal Grid No. 2 Current.....	20	20 Ma
Maximum Signal Grid No. 2 Current	20.4	28 Ma
Load Resistance (P to P)	6K	6K Ohms
Power Output	20	34 Watts
Total Harmonic Distortion	0.35	2.5 Percent

NOTE:

(1) The maximum permissible limit for Grid No. 1 Resistor in a Class B Circuit is 0.5 Megohm.

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