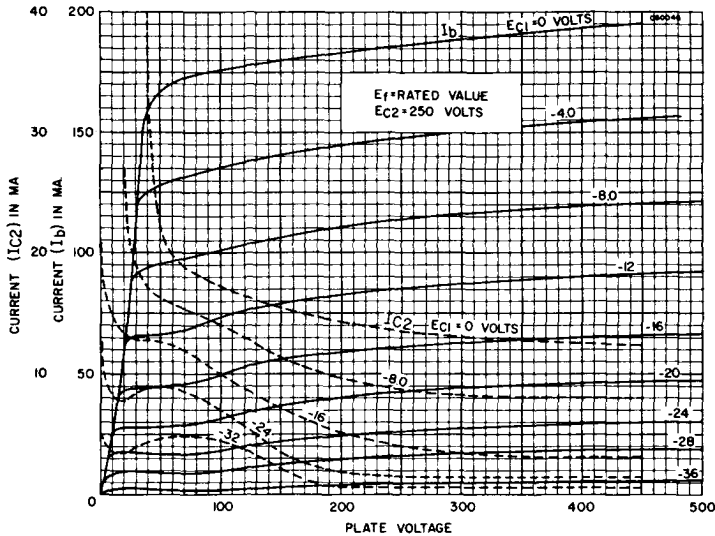


AVERAGE PLATE CHARACTERISTICS

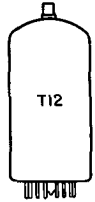
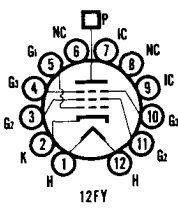


Color Television Type
**HORIZONTAL DEFLECTION
AMPLIFIER**

6LB6

Beam Power Pentode

- Construction..... Compactron T-12
- Base Button 12 Pin, E12-74
- Top Cap C1-1
- Basing 12FY
- Outline 12-90
- Maximum Diameter 1.563 In.
- Maximum Seated Height 4.000 In.
- Maximum Overall Height 4.375 In.



ELECTRICAL DATA

HEATER OPERATION

Heater Voltage.....	6.3 Volts
Heater Current.....	2250 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 No. 1 to Plate.....	0.44 Pf
Input: g1 to (h + k + g2 + bp).....	33 Pf
Output: p to (h + k + g2 + bp).....	18 Pf

RATINGS (Design Maximum Rating System)

Horizontal Deflection Amplifier Service⁽¹⁾

DC Plate-Supply Voltage (Boost + DC Power Supply) (Max.).....	990 Volts
Peak Positive Pulse Plate Voltage (Absolute Maximum Value).....	7000 Volts
Peak Negative Pulse Plate Voltage (Max.).....	100 Volts
Positive DC Beam Plate Voltage (Max.).....	0 Volt
Screen Voltage (Max.).....	200 Volts
Peak Negative Grid No. 1 Voltage (Max.).....	300 Volts
Plate Dissipation (Absolute Maximum Value) ⁽²⁾	30 Watts
Screen Dissipation (Max.).....	5.0 Watts

DC Cathode Current (Max.)	315 Ma
Peak Cathode Current (Max.)	1100 Ma
Grid No. 1 Circuit Resistance	
With Feedback-Type High Voltage Regulation (Max.)	1.2 Megohms
With Shunt-Type High Voltage Regulation (Switching Mode) (Max.) ..	10.0 Megohms
Beam Plate Circuit Resistance (Max.)	0 Ohms
Bulb Temperature (Max.) ⁽⁴⁾	200 °C

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	5000	45	50	150 Volts
Beam Plates	Connected to Cathode at Socket			
Screen Voltage	110	160	110	110 Volts
Grid No. 1 Voltage	—	0	—	-20 Volts
Plate Resistance (Approx.)	—	—	—	6600 Ohms
Transconductance	—	—	—	13,400 μ mhos
Plate Current	—	900 ⁽⁴⁾	560 ⁽⁴⁾	105 Ma
Screen Current	—	110 ⁽⁴⁾	46 ⁽⁴⁾	2.0 Ma
Grid No. 1 Voltage (Approx.)	—	—	—	—
I _b = 1.0 Ma	-125	—	—	-40 Volts
Triode Amplification Factor ⁽⁵⁾	—	—	—	4.0

NOTES:

- (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.
- (2) 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.
- (3) Measured using a thermocouple attached to a 0.1-inch wide phosphor-bronze ring placed at the hottest location on the bulb.
- (4) Values measured by a method involving a recurrent waveform such that the plate and screen dissipation will be kept within ratings in order to prevent damage to the tube.
- (5) Triode connection (screen tied to plate) with Eb = Ec2 = 125 volts, and Ec1 = -25 volts.

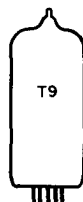
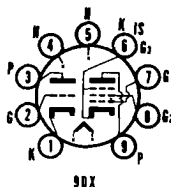
6LB8

10LB8

Color Television Type

**VOLTAGE AMPLIFIER (T)
VIDEO AMPLIFIER (P)****Medium Mu Triode and
Sharp Cutoff Pentode**

Construction	9T-9
Base	Button 9 Pin, E9-68
Basing	9DX
Outline	9-69
Maximum Diameter	1.188 In.
Maximum Seated Height	2.320 In.
Maximum Overall Height	2.630 In.

**ELECTRICAL DATA
HEATER OPERATION**

Heater Voltage	10LB8 10.2	6LB8 6.3 Volts
Heater Current	450	725 Ma
Heater Warm-up Time	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 (Unshielded)**Triode Section**

Grid to Plate	2.8 Pf
Input: g to (h + Tk + Pk, g3, IS)	1.9 Pf
Output: p to (h + Tk + Pk, g3, IS)	1.8 Pf

Pentode Section

Grid No. 1 to Plate (Max.)	0.10 Pf
Input: g1 to (h + Pk, g3, IS + g2)	12 Pf
Output: p to (h + Pk, g3, IS + g2)	3.0 Pf

Coupling

Triode Grid to Pentode Plate (Max.)	0.02 Pf
Pentode Grid No. 1 to Triode Plate (Max.)	0.004 Pf
Pentode Plate to Triode Plate (Max.)	0.13 Pf