

Plate Dissipation (Max.)	1.1	2.0 Watts
Grid No. 2 Input (Max.)	—	1.1 Watt
Grid No. 1 Circuit Resistance		
Self Bias (Max.)	1.0	1.0 Megohm
Fixed Bias (Max.)	0.25	0.5 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

	Triode Section	Pentode Section
Plate Supply Voltage	200	150 Volts
Grid No. 2 Voltage	—	100 Volts
Grid No. 1 Voltage	-2	0 Volt
Cathode Bias Resistor	—	180 Ohms
Plate Current	4	4 Ma
Grid No. 2 Current	—	2.8 Ma
Amplification Factor	70	—
Plate Resistance (Approx.)	17,500	100,000 Ohms
Transconductance (G1 to P)	4000	4400 μ mhos
Transconductance (G3 to P)	—	600 μ mhos
Ec3 for Ib = 20 μ a (Approx.)	—	-7 Volts
Ec1 for Ib = 10 μ a (Approx.)	-5	— Volts
20 μ a (Approx.)	—	-4 Volts

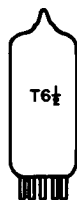
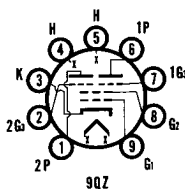
NOTE:

- (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

COLOR DEMODULATOR**6LE8****8LE8, 10LE8, 15LE8****Twin Pentode**

Construction Miniature T-6½
 Base Button 9 Pin, E9-1
 Basing 9QZ
 Outline 6-4
 Maximum Diameter 0.875 In.
 Maximum Seated Height 2.812 In.
 Maximum Overall Height 3.062 In.

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

	15LE8	10LE8	8LE8	6LE8
Heater Voltage	15.0	10.0	8.0	6.3 Volts
Heater Current	300	450	600	760 Ma
Heater Warm-up Time	11	11	11	— Seconds

Maximum Heater-Cathode Voltage

Heater Negative with Respect to Cathode

Total DC and Peak

300 Volts

Heater Positive with Respect to Cathode

DC

100 Volts

Total DC and Peak

200 Volts

DIRECT INTERELECTRODE CAPACITANCES

Grid No. 3 to Plate (Each Section)	2.7 Pf
Grid No. 1 to All	15.5 Pf
Grid No. 3 to All (Each Section)	6.0 Pf
Plate to All (Each Section)	3.7 Pf
Grid No. 3 (Section 1) to Grid No. 3 (Section 2)	0.1 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Each Section) (Max.)	300 Volts
Grid No. 2 Voltage (Max.)	150 Volts
Plate Dissipation (Each Section) (Max.)	2 Watts
Grid No. 2 Dissipation (Max.)	2 Watts

CHARACTERISTICS AND TYPICAL OPERATION (Each Section)**Grid No. 1 Control**

Plate Voltage	100 Volts
Grid No. 2 Voltage	100 Volts
Grid No. 1 Voltage	-2.5 Volts
Grid No. 3 Voltage	0 Volt
Plate Current (Approx.)	8.0 Ma
Grid No. 2 Current (Approx.)	15.0 Ma
Transconductance (Approx.)	5800 μ mhos

Plate Resistance (Approx.)	50,000 Ohms
Grid No. 1 Voltage for $I_b = 20 \mu a$	-7.2 Volts
Grid No. 1 Voltage for $I_b = 100 \mu a$	-6.3 Volts
Grid No. 3 Control	
Plate Voltage	100 Volts
Grid No. 2 Voltage	100 Volts
Grid No. 1 Voltage	-2.5 Volts
Grid No. 3 Voltage	0 Volt
Plate Current	7.5 Ma
Grid No. 2 Current	14.5 Ma
Transconductance	350 $\mu mhos$
Plate Resistance	50,000 Ohms
Grid No. 3 Voltage for $I_b = 20 \mu a^{(1)}$	-17.4 Volts
Grid No. 3 Voltage for $I_b = 100 \mu a^{(1)}$	-16.5 Volts

NOTE:

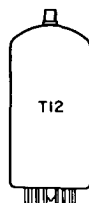
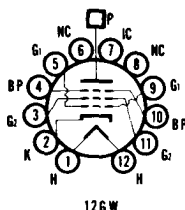
(1) Measured with -3.0 volts on Grid No. 1 to maintain Grid No. 2 within dissipation rating.

6LF6

Color Television Type

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

Construction.....	Compactron T-12
Base	E12-74
Top Cap	C1-1
Basing	12GW
Outline	
Maximum Diameter	1.563 In.
Maximum Seated Height	4.570 In.
Maximum Overall Height	4.950 In.

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

Heater Voltage	6.3 Volts
Heater Current	2.0 Amp.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid to Plate	3.0 pf
Input: g_1 to ($h + k + g_2 + bp$).....	37 pf
Output: p to ($h + k + g_2 + bp$).....	18.5 pf

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

DC Plate Supply Voltage at Zero Current (Max.)	990 Volts
Peak Positive Plate Voltage ⁽¹⁾ (Max.)	8000 Volts
Beam Plate Voltage (Max.)	50 Volts
Grid No. 2 Voltage (Max.)	275 Volts
Peak Negative Grid No. 1 Voltage (Max.)	550 Volts
Plate Dissipation (Max.)	40 Watts
Peak Cathode Current (Max.)	1400 Ma
Beam Plate Circuit Resistance (Max.)	0.01 Megohms
Bulb Temperature (At Hottest Point) (Max.)	300 °C

AVERAGE CHARACTERISTICS (Measured Under Pulse Conditions)

	Max.	Min.	During Flyback
Plate Voltage	160	50	7000 Volts
Grid No. 2 Voltage	160	175	175 Volts
Grid No. 1 Voltage	0	-10	-185 Volts
Beam Plate Voltage	Tied to Cathode		
Plate Current	1400	800	<0.05 Ma
Grid No. 2 Current	45	70	— Ma

NOTE:

(1) Maximum pulse duration is 22% of a cycle, maximum 18 μsec .