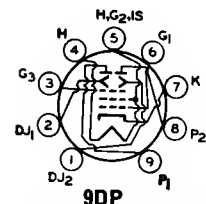


MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.25	megohm
For cathode-bias operation	1	megohm



BEAM-DEFLECTION TUBE

6JH8

Miniature type used in color-demodulator and burst-gate circuits in color television receivers. This type has two plates and two deflecting electrodes; the control grid varies beam deflection. Outlines section, 6E; requires miniature 9-contact socket. Pin 5 should be connected to cathode at socket. The 6JH8 should be

so located in the equipment that it is not subjected to stray magnetic fields.

Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.3	amperes
Direct Interelectrode Capacitances:		
Grid No.1 to All Other Electrodes, Except Both Plates	7.5	pF
Grid No.1 to Deflecting Electrode No.1	0.04 max	pF
Grid No.1 to Deflecting Electrode No.2	0.07 max	pF
Plate No.1 to All Other Electrodes	5.0	pF
Plate No.2 to All Other Electrodes	5.0	pF
Plate No.1 to Plate No.2	0.4	pF
Deflecting Electrode No.1 to All Other Electrodes	4.8	pF
Deflecting Electrode No.2 to All Other Electrodes	4.8	pF
Deflecting Electrode No. 1 to Deflecting Electrode No.2	0.38	pF

Color TV Demodulator

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage (Each Plate)	330	volts
Peak Deflecting-Electrode Voltage (Each Electrode):		
Negative value	165	volts
Positive value	165	volts
Grid-No.3 (Accelerating-Grid) Voltage	330	volts
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	volts
Cathode Current	33	mA
Plate Dissipation (Each Plate)	3	watts
Grid-No.3 Input	1	watt

MAXIMUM CIRCUIT VALUES

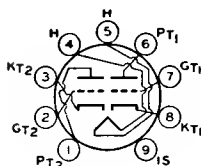
Grid-No.1 Circuit Resistance:		
For fixed-bias operation	0.1	megohm
For cathode-bias operation	0.25	megohm

Class A₁ Amplifier

With both plates connected together and with both deflecting electrodes connected to cathode at socket

CHARACTERISTICS

Plate-No.1 Supply Voltage	250	volts
Plate-No.2 Supply Voltage	250	volts
Grid-No.3 Voltage	250	volts
Cathode-Bias Resistor	220	ohms
Transconductance	4400	μmhos
Total Plate Current	14	mA
Grid-No.3 Current	1.5	mA
Grid-No.1 Voltage (Approx.) for total plate current of 10 μA	-13	volts



DUAL TRIODE

6JK8

Miniature type used as combined rf-amplifier and mixer-oscillator tube in FM tuners. Unit No.1 is used as an oscillator-mixer, and unit No.2 is used as an rf amplifier. Outlines section, 6B; requires miniature 9-contact socket and may be mounted in any position.

Heater Voltage (ac/dc)	6.3	volts	
Heater Current	0.4	ampere	
Peak Heater-Cathode Voltage	± 100 max	volts	
Direct Interelectrode Capacitances:	Unit No.1	Unit No.2	
Grid to Plate	1.4	0.6	pF
Grid to Cathode, Heater, and Internal Shield	3	5	pF
Plate to Cathode, Heater, and Internal Shield	1	4	pF
Heater to Cathode	2.8	2.8	pF
Grid of Unit No.1 to Grid of Unit No.2		0.003 max	pF
Plate of Unit No.1 to Plate of Unit No.2		0.009 max	pF

Class A₁ Amplifier

	Unit No.1 Oscillator	Unit No.2 RF Amplifier	
MAXIMUM RATINGS (Design-Maximum Values)			
Plate Voltage	165	200	volts
Negative Grid Voltage	50	50	volts
Average Cathode Current	22	22	mA
Plate Dissipation	1	2	watts
CHARACTERISTICS			
Plate Voltage	100	135	volts
Grid Voltage	-1	-1.2	volts
Amplification Factor	55	70	
Plate Resistance (Approx.)	8000	5400	ohms
Transconductance	6800	13000	μ mhos
Plate Current	5.3	10	mA
Grid Voltage (Approx.):			
For plate current of 20 μ A	-4.4	—	volts
For transconductance of 150 μ mhos	—	-5.5	volts
For transconductance of 1500 μ mhos	—	-2.8	volts
MAXIMUM CIRCUIT VALUES			
Grid-Circuit Resistance, for cathode-bias operation	1	1	megohm

6JM6

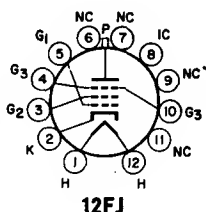
Refer to chart at end of section.

6JM6A

17JM6A

BEAM POWER TUBE

Duodecar types used as horizontal-amplifier tubes in color and black-and-white television receivers. Outlines section, 16A; requires duodecar 12-contact socket. Type 17JM6A is identical with type 6JM6A except for heater ratings.



12FJ

	6JM6A	17JM6A	
Heater Voltage (ac/dc)	6.3	16.8	volts
Heater Current	1.2	0.45	amperes
Heater Warm-up Time (Average)	—	11	seconds
Heater-Cathode Voltage:			
Peak value	± 200 max	± 200 max	volts
Average value	100 max	100 max	volts
Direct Interelectrode Capacitances:			
Grid No.1 to Plate		0.6	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3		16	pF
Plate to Cathode, Heater, Grid No. 2, and Grid No. 3		7	pF

Class A₁ Amplifier

	Pentode Connection	Triode** Connection	
CHARACTERISTICS			
Plate Voltage	5000	55	250
Grid-No.3 (Suppressor-Grid)	Connected to cathode at socket	150	volts
Grid-No.2 (Screen-Grid) Voltage	150	150	volts
Grid-No.1 (Control-Grid) Voltage	—	0	-22.5
Plate Resistance (Approx.)	—	15000	ohms
Transconductance	—	7300	μ mhos
Plate Current	—	345*	65
Grid-No.2 Current	—	30*	1.8
Grid-No.1 Voltage (Approx.) for plate current of 1 μ A	-100	—	-42
Amplification Factor	—	—	4.4