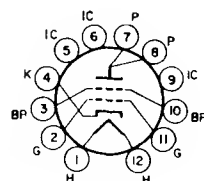


6JH5

6JH5/6HZ5/6JD5

BEAM TRIODE

Duodecar type used as a pulse-type regulator in the high-voltage power supply of color television receivers. Outlines section, 15F; requires duodecar 12-contact socket. Heater: volts (ac/dc), 6.3; amperes, 2.4.

**12JE****Class A₁ Amplifier****CHARACTERISTICS**

Pulse Plate Voltage*	3500	volts
Grid No.2 (Beam Plate)	Connected to cathode at	socket
Grid-Voltage, Negative-bias value	4.4	volts
Peak Plate Current	300	mA
Amplification Factor	300	
Transconductance	65000	μmhos
Plate Resistance (Approx.)	4600	ohms
Grid Voltage (Approx.) for plate current of 1 mA	-16	volts

* Duty cycle of the pulse must be less than 2.5%.

High-Voltage Regulator Service

For operation in a 525-line, 30-frame system

MAXIMUM RATINGS (Design-Maximum Values)

Peak Plate Voltage#	5500	volts
Plate Dissipation	35	watts
Peak Plate Current	325	mA
Heater-Cathode Voltage:		
Peak value	+200 —450	volts
Average value	100	volts
Bulb Temperature (At hottest point)	240	°C

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance [▲]	0.1	megohm
--------------------------------------	-----	--------

Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

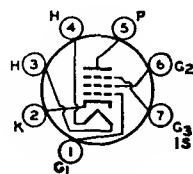
▲ Larger values of grid-circuit resistance may be used if provisions are made to protect the tube.

6JH6

4JH6

**SEMIREMOTE-CUTOFF
PENTODE**

Miniature type used in the gain-controlled picture if-amplifier stages of color and black-and-white television receivers. Outlines section, 5C; requires miniature 7-contact socket. For curves of average plate characteristics, refer to type 6BZ6. Type 4JH6 is identical with type 6JH6 except for heater ratings.

**7CM**

	4JH6 Series	6JH6 Parallel	
Heater Arrangement	4.2	6.3	volts
Heater Voltage (ac/dc)	0.45	0.3	ampere
Heater Current	11	—	seconds
Heater Warm-up Time			
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	Unshielded 0.025 max	Shielded* 0.015 max	pF
Grid No.1 to Cathode, Heater, Grid No.2,	7	7	pF
Grid No.3, and Internal Shield	2	3	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3,			
and Internal Shield			

* With external shield connected to cathode.

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

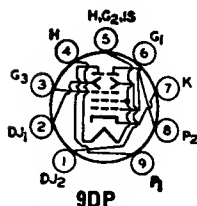
Plate Voltage	300	volts
Grid-No.3 (Suppressor-Grid) Voltage, Positive value	0	volts
Grid-No.2 (Screen-Grid) Supply Voltage	300	volts
Grid-No.2 Voltage	See curve page 300	300
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	volts
Grid-No.2 Input:		
For grid-No.2 voltages up to 150 volts	0.55	watt
For grid-No.2 voltages between 150 and 300 volts	See curve page 300	

CHARACTERISTICS

Plate Supply Voltage	125	volts
Grid-No.3	Connected to cathode at socket	
Grid-No.2 Supply Voltage	125	volts
Cathode-Bias Resistor	56	ohms
Plate Resistance (Approx.)	0.26	megohm
Transconductance	8000	μ mhos
Transconductance Range for grid-No.1 voltage of -4.5 volts and cathode-bias resistor of 56 ohms	400-900	μ mhos
Plate Current	14	mA
Grid-No.2 Current	3.6	mA
Grid-No.1 Voltage (Approx.) for transconductance of 50 μ mhos	-19	volts

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	pF
Plate No.2 to All Other Electrodes	5	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