



BEAM TRIODE

6HZ5/6JD5

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.

12GY

Heater Voltage (ac/dc)	6.3	volts
Heater Current	2.4	amperes
Direct Interelectrode Capacitances (Approx.):		
Grid to Plate	1.7	pF
Grid to Cathode, Heater, and Beam Plate	23	pF
Plate to Cathode, Heater, and Beam Plate	12	pF

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RCA RECEIVING TUBE MANUAL

Class A₁ Amplifier

CHARACTERISTICS

Pulse Plate Voltage*	3500	volts
Grid No.2 (Beam Plate)	Connected to cathode at socket	volts
Grid-Voltage, Negative-bias value	4.4	volts
Peak Plate Current	300	mA
Amplification Factor	300	
Transconductance	55000	μmhos
Plate Resistance (Approx.)	4600	ohms
Grid Voltage (Approx.) for plate current of 1 mA and plate voltage of 3500 volts	—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	volts
Average value	—450	volts
Bulb Temperature (At hottest point)	100	°C
	240	

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance▲	0.1	megohm
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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.