

BEAM POWER TUBE

21HB5A

Duodecar type used as horizontal-deflection amplifier in television receivers. Outlines section, 15B; requires duodecar 12-contact socket. For maximum ratings, refer to type 6HB5. Heater: volts (ac/dc), 21; amperes, 0.45; warm-up time (average), 11 seconds; maximum heater-cathode volts, ± 200 peak, 100 average.

Class A₁ Amplifier

CHARACTERISTICS

	Pentode Connection			Triode* Connection	
Plate Voltage	5000	50	130	130	volts
Grid-No.2 (Screen-Grid) Voltage	130	130	130	130	volts
Grid-No.1 (Control-Grid) Voltage	—	0	—20	—20	volts
Amplification Factor	—	—	—	4.8	
Plate Resistance (Approx.)	—	—	9900	—	ohms
Transconductance	—	—	9000	—	μ mhos
Plate Current	—	450*	46	—	mA
Grid-No.2 Current	—	29*	1.8	—	mA
Grid-No.1 Voltage (Approx.) for plate current of 1 mA	—64	—	—32	—	volts

* Grid-No.2 tied to plate

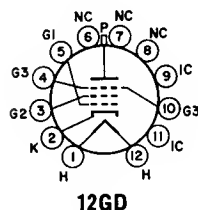
* This value can be measured by a method involving a recurrent waveform such that the maximum ratings of the tube will not be exceeded.

Refer to chart at end of section.

21HJ5

Refer to type 33JV6.

21JV6



BEAM POWER TUBE

21JZ6

Duodecar type used as horizontal-deflection amplifier in television receivers. Outlines section, 15C; requires duodecar 12-contact socket. Heater: volts (ac/dc), 21; amperes, 0.45; average warm-up time, 11 seconds; maximum heater-cathode volts, ± 200 peak, 100 average.

Class A₁ Amplifier

CHARACTERISTICS

	Triode ^A Connection	Pentode Connection			
Plate Voltage	130	5000	50	130	volts
Grid No.3 (Suppressor Grid)	—	Connected to cathode at socket			
Grid-No.2 (Screen-Grid) Voltage	—	130	130	130	volts
Grid-No.1 (Control-Grid) Voltage	—20	—	0	—20	volts
Amplification Factor	4.8	—	—	—	
Plate Resistance (Approx.)	—	—	—	9900	ohms
Transconductance	—	—	—	9000	μ mhos
Plate Current	—	—	450	46	mA
Grid-No.2 Current	—	—	29	1.8	mA
Grid-No.1 Voltage (Approx.) for plate current of 1.0 mA	—	—64	—	—32	volts

* Grid No.2 connected to plate.

Horizontal-Deflection Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values)

Plate Supply Voltage	770	volts
Peak Positive-Pulse Plate Voltage*	6500	volts
Peak Negative-Pulse Plate Voltage	1500	volts
DC Grid-No.3 Voltage, Positive-bias value	70	volts
Grid-No.2 Voltage	220	volts