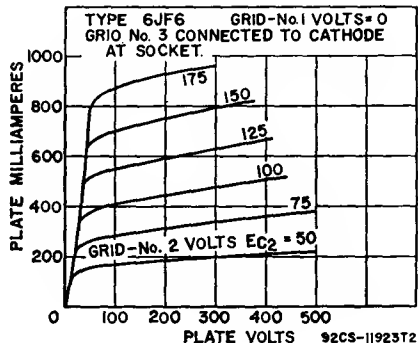
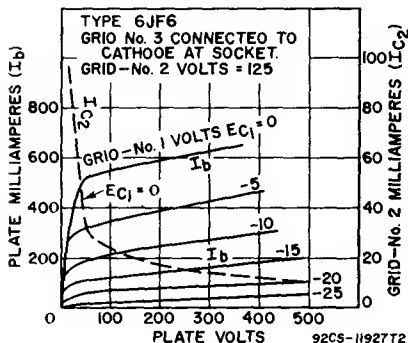


DC Grid-No.2 Voltage	220	volts
Peak Negative-Pulse Grid-No.1 Voltage	330	volts
Peak Cathode Current	950	mA
Average Cathode Current	275	mA
Grid-No.2 Input	3.5	watts
Plate Dissipation†	17	watts
Bulb Temperature (At hottest point)	240	°C



MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:

For cathode-bias operation	1	megohm
For grid-leak-bias operation	10	megohms
For fixed-bias operation	0.47	megohm

* Grid-No.2 connected to plate at socket.

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

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

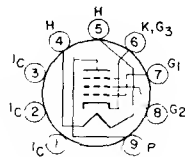
* In this service, a positive value may be applied to grid No.3 to minimize "snivets" interference; a typical value for this voltage is 50 volts.

‡ A bias resistor or other means is required to protect the tube in absence of excitation.

6JG5

SHARP-CUTOFF PENTODE

Miniature type with frame grid used as video output amplifier in color television receivers. Outlines section, 6E; requires miniature 9-contact socket. Heater: volts, 6.3; amperes, 0.525; maximum heater-cathode volts, ± 200 peak, 100 average.



9SF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330	volts
Grid-No.3 (Suppressor-Grid) Voltage, Positive value	0	volts
Grid-No.2 (Screen-Grid) Supply Voltage	330	volts
Grid-No.2 Voltage	See curve page 300	
Grid-No.1 (Control-Grid) Voltage, Positive value	0	volts
Plate Dissipation	5	watts
Grid-No.2 Input	1.1	watts

CHARACTERISTICS

Plate Voltage	200	60	volts
Grid-No.2 Supply Voltage	150	150	volts
Grid-No.1 Voltage	—	0*	volts
Cathode-Bias Resistor, Bypassed	100	—	ohms
Plate Resistance (Approx.)	60000	—	ohms
Transconductance (Grid No.1 to Plate)	11500	—	μ mhos
Plate Current	25	55	mA
Grid No.2 Current	5.5	18	mA
Grid-No.1 Voltage (Approx.) for plate current of 100 μ A	—10	—	volts

MAXIMUM CIRCUIT VALUES

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

* Applied not exceeding two seconds, to avoid damage to tube.

Refer to chart at end of section.

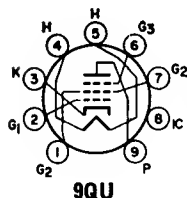
6JG6

6JG6A

17JG6A, 22JG6A

BEAM POWER TUBE

Novar type used as horizontal-deflection amplifier in low-B+, black-and-white television receivers. Outlines section, 31D; requires novar 9-contact socket. For curves of average plate characteristics, refer to type 6JF6. Types 17JG6A and 22JG6A are identical with type 6JG6A except for heater ratings.



	6JG6A	17JG6A	22JG6A	
Heater Voltage (ac/dc)	6.3	16.8	22	volts
Heater Current	1.6	0.6	0.45	amperes
Heater Warm-up Time (Average)	—	11	11	seconds
Heater-Cathode Voltage:				
Peak value	±200 max	±200 max	±200 max	volts
Average value	100 max	100 max	100 max	volts
Direct Interelectrode Capacitances:				
Grid No.1 to Plate			0.7	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No. 3			22	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3			9	pF

Class A₁ Amplifier

CHARACTERISTICS

	Triode^a Connection	Pentode Connection	
Plate Voltage	125	50 130	volts
Grid-No.3 (Suppressor Grid)	—	Connected to cathode at socket	
Grid-No.2 (Screen-Grid) Voltage	—	125 125	volts
Grid-No.1 (Control-Grid) Voltage	-20	0 -20	volts
Amplification Factor	4.1	—	
Plate Resistance (Approx.)	—	— 12000	ohms
Transconductance	—	— 10000	μmhos
Plate Current	—	525* 80	mA
Grid-No.2 Current	—	32* 2.5	mA
Grid-No.1 Voltage (Approx.), for plate current of 1 mA	—	— -40	volts

* With grid No.2 connected to plate at socket.

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

Horizontal-Deflection Amplifier

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

MAXIMUM RATINGS (Design-Maximum Values)

DC Plate Supply Voltage	770	volts
Peak Positive-Pulse Plate Voltage†	6500	volts
Peak Negative-Pulse Plate Voltage	1500	volts
DC Grid-No.3 Voltage*	75	volts
DC Grid-No.2 Voltage	220	volts
DC Grid-No.1 Voltage, Negative-bias value	-55	volts
Peak Negative-Pulse Grid-No.1 Voltage	330	volts
Peak Cathode Current	950	mA
Average Cathode Current	275	mA
Plate Dissipation†	17	watts
Grid-No.2 Input	3.5	watts
Bulb Temperature (At hottest point)	240	°C

MAXIMUM CIRCUIT VALUE

Grid-No.1-Circuit Resistance, for grid-No.1-resistor-bias operation	2.2	megohms
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* Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).

† In a horizontal-deflection-amplifier service, a positive voltage (typical value, 30 volts) may be applied to grid No.3 to reduce "snivets" interference, which may occur in both vhf and uhf television receivers.

† A bias resistor or other means is required to protect the tube in absence of excitation.