

Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.8	ampere
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts
Direct Inter-electrode Capacitances:**		
Unit No. 1:		
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3	11	pF
Grid No.3 of Unit No.2, and Internal Shield		
Plate to Cathode, Heater, Grid No.2, Grid No.3	2.8	pF
of Unit No.2, and Internal Shield		
Unit No. 2:		
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3	11	pF
Grid No.3 of Unit No.1, and Internal Shield		
Plate to Cathode, Heater, Grid No.2, Grid No.3	3.2	pF
of Unit No.1, and Internal Shield		
Grid No.1 to Plate (Each Unit)	0.04 max	pF
Cathode of Unit No.1 to Cathode of Unit No.2	0.02 max	pF
Grid No.1 of Unit No.1 to Plate of Unit No.2	0.003 max	pF
Grid No.1 of Unit No.2 to Plate of Unit No.1	0.003 max	pF
Plate of Unit No.1 to Plate of Unit No.2	0.03 max	pF

** With external shield connected to cathode.

Class A₁ Amplifier (Each Unit)

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	880	volts
Grid-No.2 (Screen-Grid) Supply Voltage	330	volts
Grid-No.2 Voltage	See curve page 98	
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	volts
Plate Dissipation	8.1	watts
Grid-No.2 Input:		
For grid No.2 voltages up to 165 volts	0.95	watt
For grid No.2 voltages between 165 and 300 volts	See curve page 98	
CHARACTERISTICS		
Plate Supply Voltage	125	volts
Grid No.3 (Suppressor Grid)	Connected to cathode at socket	
Grid-No.2 Voltage	125	volts
Cathode-Bias Resistor	56	ohms
Plate Resistance (Approx.)	0.2	megohm
Transconductance	13000	μmhos
Plate Current	11	mA
Grid-No.2 Current	3.8	mA
Grid-No.1 Voltage (Approx.) for plate current of 20 μA	—3	volts
MAXIMUM CIRCUIT VALUE		
Grid-No.1-Circuit Resistance, for cathode-bias operation	0.25	megohm

6JB6

Refer to chart at end of section.

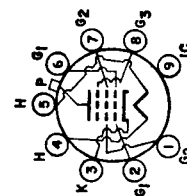
6JB6A

12JB6A, 17JB6A

BEAM POWER TUBE

Novar types used as high-efficiency horizontal-deflection amplifiers in television receivers. Outlines section, 32A; requires novar 9-contact socket. Types 12JB6A and 17JB6A are identical with type 6JB6A except for heater ratings.

Heater Voltage (ac/dc)	6JB6A	12JB6A	17JB6A	
Heater Current	6.3	12.6	16.8	volts
Heater Warm-up Time (Average)	1.2	0.6	0.45	amperes
Heater-Cathode Voltage:				
Peak value	±200 max	±200 max	±200 max	volts
Average value	100 max	100 max	100 max	volts
Direct Inter-electrode Capacitances (Approx.):				
Grid No.1 to Plate	0.2			pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	15			pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3	6			pF



9QL

TECHNICAL DATA

Class A₁ Amplifier

CHARACTERISTICS

Plate Voltage	150	volts
Grid No.3 (Suppressor Grid)	Connected to cathode at socket	
Grid-No.2 (Screen-Grid) Voltage	150	volts
Grid-No.1 (Control-Grid) Voltage	0	volts
Mu-Factor, Grid No.2 to Grid No.1	—22.5	
Plate Resistance (Approx.)	4.4	ohms
Transconductance	—	15000
Plate Current	890	mA
Grid-No.2 Current	32	mA
Grid-No.1 Voltage for plate current of 1 mA	—	volts

* Grid No.2 connected 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.

Horizontal-Deflection Amplifier

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

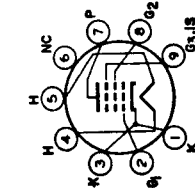
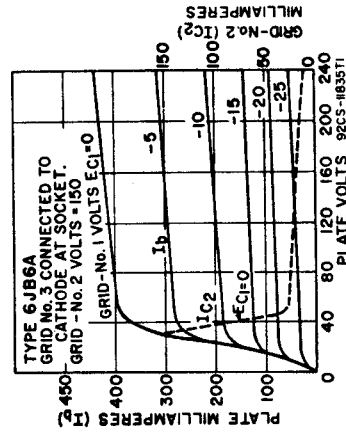
MAXIMUM RATINGS (Design-Maximum Values)

DC Plate Supply Voltage	770	volts
Peak Positive-Pulse Plate Voltage	800	volts
Peak Negative-Pulse Plate Voltage	1600	volts
DC Grid-No.3 Voltage	70	volts
DC Grid-No.2 Voltage	220	volts
DC Grid-No.1 Voltage	—55	volts
Peak Negative-Pulse Grid-No.1 Voltage	330	volts
Peak Cathode Current	550	mA
Average Cathode Current	175	mA
Plate Dissipation*	17.5	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-resistor-bias operation	1	megohm

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

† For horizontal-deflection service, a positive voltage may be applied to grid No.3 to minimize "snivets" interference in both vhf and uhf television receivers. A typical value is 30 volts.

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



9PM

SHARP-CUTOFF PENTODE

6JC6

6JC6A

3JC6A, 4JC6, 4JC6A

Miniature type with frame grid used in if-amplifier stages of color and black-and-white television receivers utilizing intermediate frequencies in the order of 40 MHz. Outlines section, 6B; requires miniature 9-contact socket. Type 4JC6 is identical with type 6JC6 except for heater ratings. Types 3JC6A and 4JC6A are identical with type 6JC6A except for heater ratings.