

Grid-No.3 Input	0.1	watt
Grid-No.2 Input:		
For grid-No.2 voltages up to 150 volts	1	watt
For grid-No.2 voltages between 150 and 300 volts	See curve page 300	

MAXIMUM CIRCUIT VALUES

Grid-No.3-Circuit Resistance	0.68	megohm
Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.22	megohm
For cathode-bias operation	0.47	megohm

Refer to chart at end of section.

6HZ8

Refer to chart at end of section.

6J4

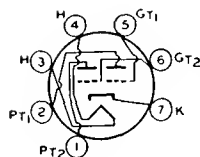
Refer to chart at end of section.

6J4WA

Refer to chart at end of section.

**6J5
6J5GT**

Refer to chart at end of section.

6J6**MEDIUM-MU TWIN TRIODE****6J6A****5J6****7BF**

Miniature type used as combined rf power amplifier and oscillator or as twin af amplifier. With push-pull arrangement of the grids and the plates in parallel, this type can also be used as a mixer at frequencies as high as 600 MHz. Outlines section, 5C; requires miniature 7-contact socket. Type 5J6 is identical with type 6J6A except for heater ratings.

	5J6	6J6A	
Heater Voltage (ac/dc)	4.7	6.3	volts
Heater Current	0.6	0.45	ampere
Heater Warm-up Time (Average)	11	11	seconds
Peak Heater-Cathode Voltage	±100 max	±100 max	volts
Direct Interelectrode Capacitances (Each Unit, Approx.):			
Grid to Plate	1.6	1.6	pF
Grid to Cathode and Heater	2.2	2.6	pF
Plate to Cathode and Heater (Unit No.1)	0.4	1.6	pF
Plate to Cathode and Heater (Unit No.2)	0.4	1	pF

Class A₁ Amplifier**MAXIMUM RATINGS (Design-Maximum Values)**

Plate Voltage	300	volts
Grid Voltage, Positive-bias value	0	volts
Plate Dissipation	1.5	watts

CHARACTERISTICS

Plate Voltage	100	volts
Cathode-Bias Resistor	50†	ohms
Amplification Factor	38	
Plate Resistance (Approx.)	7100	ohms
Transconductance	5300	μmhos
Plate Current	8.5	mA

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance:		
For fixed-bias operation	Not recommended	
For cathode-bias operation	0.5	megohm

† Value is for both units operating at the specified conditions.

RF Power Amplifier and Oscillator—Class C Telegraphy

Key-down conditions per tube without modulation

MAXIMUM RATINGS (Design-Center Values, Each Unit)

Plate Voltage	300	volts
Grid Voltage:		
Negative-bias value	40	volts
Positive-bias value	0	volts
Plate Current	15	mA
Grid Current	8	mA
Plate Input	4.5	watts
Plate Dissipation	1.5	watts

TYPICAL PUSH-PULL OPERATION (Both Units)

Plate Voltage	150	volts
Grid Voltage*	-10	volts
Plate Current	30	mA
Grid Current (Approx.)	16	mA
Driving Power (Approx.)	0.35	watt
Power Output (Approx.)	3.5	watts

* Obtained by grid resistor (625 ohms), cathode-bias resistor (220 ohms), or fixed supply.

6J6WA

Refer to chart at end of section.

6J6WB

Refer to chart at end of section.

6J7**6J7G**

Refer to chart at end of section.

6J7GT**6J8G**

Refer to chart at end of section.

6J9

Refer to chart at end of section.

6J10Refer to chart at end of section.
For replacement use type 6Z10/6J10.**6J11**

Refer to chart at end of section.

6JA5

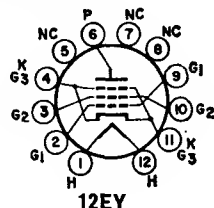
Refer to chart at end of section.

6JB5

For replacement use type 6JB5/6HE5.

6JB5/6HE5**BEAM POWER TUBE**

Duodecar type used as vertical-deflection amplifier in television receivers. Outlines section, 15D; requires duodecar 12-contact socket.



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 Interelectrode Capacitances:		
Grid No.1 to Plate	0.49	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	9.5	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3	6.5	pF

Class A₁ Amplifier**CHARACTERISTICS**

Plate Voltage	60	250	volts
Grid-No.2 (Screen-Grid) Voltage	250	250	volts
Grid-No.1 (Control-Grid) Voltage	0	-20	volts
Plate Resistance (Approx.)	—	50000	ohms
Transconductance	—	4100	μmhos
Plate Current	180*	43	mA
Grid-No.2 Current	20*	3.5	mA
Grid-No.1 Voltage (Approx.) for plate current of 100 μA	—	-50	volts