

Grid-No.1 Voltage (Approx.) for plate current of 20 μ A	—7	—	6.5	volts
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MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:				
For fixed-bias operation	—	0.1	megohm	
For cathode-bias operation	—	0.5	megohm	

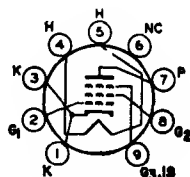
6JD5

For replacement use type 6JH5/6JD5/6HZ5

6JD6**SHARP-CUTOFF PENTODE**

3JD6, 4JD6

Miniature type with frame grid used as if-amplifier tube in color and black-and-white television receivers utilizing an intermediate frequency in the order of 40 MHz. Outlines section, 6B; requires miniature 9-contact socket. Types 3JD6 and 4JD6 are identical with type 6JD6 except for heater ratings.

**9PM**

	3JD6	4JD6	6JD6	
Heater Voltage	3.5	4.5	6.3	volts
Heater Current	0.6	0.45	0.3	ampere
Heater Warm-up Time (Average)	11	11	—	seconds
Heater-Cathode Voltage:				
Peak value	± 200 max		± 200 max	volts
Average value	100 max		100 max	volts
Direct Interelectrode Capacitances:				
Grid No.1 to Plate			0.019 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield			8.2	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield			3	pF

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-bias value	0	volts
Plate Dissipation	2.5	watts
Grid-No.2 Input:		
For grid-No.2 voltages up to 165 volts	0.6	watt
For grid-No.2 voltages between 165 and 330 volts	See curve page 300	

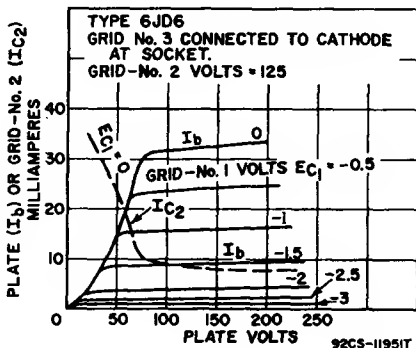
**CHARACTERISTICS**

Plate Supply Voltage	125	volts
Grid-No.3 Voltage	0	volts
Grid-No.2 Supply Voltage	125	volts

Grid-No.1 Supply Voltage	0	volts
Cathode-Bias Resistor	56	ohms
Plate Resistance (Approx.)	160000	ohms
Transconductance	14000	μ mhos
Plate Current	15	mA
Grid-No.2 Current	4	mA
Grid-No.1 Voltage (Approx.) for transconductance of 600 μ mhos ..	-4.5	volts

MAXIMUM CIRCUIT VALUES

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

Refer to chart at end of section.
For replacement use type 6MJ6/6LQ6/6JE6C.

6JE6

Refer to chart at end of section.
For replacement use type 6MJ6/6LQ6/6JE6C.

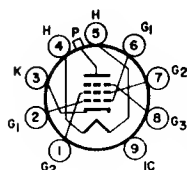
6JE6A

For replacement use type 6MJ6/6LQ6/6JE6C.

6JE6C

Refer to chart at end of section.

6JE8



9QL

BEAM POWER TUBE

6JF6

17JF6, 22JF6

Novar type used as horizontal-deflection amplifier in black-and-white television receivers. Outlines section, 18E or 18F; requires novar 9-contact socket. Types 17JF6 and 22JF6 are identical with type 6JF6 except for heater ratings.

	6JF6	17JF6	22JF6	
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 (Approx.):				
Grid No.1 to Plate			1.2	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
Peak Positive-Pulse Plate Voltage# ..	— 6500	— —	volts
Grid No.3 (Suppressor Grid)	Connected to cathode at socket		
Grid-No.2 (Screen-Grid) Voltage	125	125 125	volts
Grid-No.1 (Control-Grid) Voltage ..	-20	— 0 -20	volts
Triode Amplification Factor	4.1	— —	
Plate Resistance (Approx.)	—	— 12000	ohms
Transconductance	—	— 10000	μ mhos
Plate Current	—	— 525† 80	mA
Grid-No.2 Current	—	— 32† 2.5	mA
Grid-No.1 Voltage for plate current of 1 mA	— --125	— -40	volts

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 ^a	100	volts