

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

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)	Unit No.1	Unit No.2	
Plate Voltage	330	330	volts
Grid Voltage:			
Positive-bias value	0	0	volts
Negative-bias value	50	50	volts
Cathode Current	20	—	mA
Plate Dissipation	2.75	0.8	watts

CHARACTERISTICS

Plate Voltage	250	250	volts
Grid Voltage	—8.5	—2	volts
Amplification Factor	17	100	
Plate Resistance (Approx.)	7700	62500	ohms
Transconductance	2200	1600	μmhos
Plate Current	10.5	1.2	mA
Grid Voltage (Approx.) for plate current of 10 μA ..	—24	—	volts

5HB7

Refer to type 6HB7.

5HG8

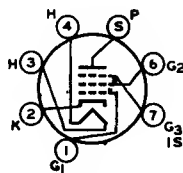
Refer to chart at end of section.

5HZ6

Refer to type 6HZ6.

5J6

Refer to type 6J6A.

5JK6**SHARP-CUTOFF PENTODE****7CM**

Heater Voltage (ac/dc)	4.9	volts
Heater Current	0.45	ampere
Heater Warm-up Time (Average)	11	seconds
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances:		
Grid No.1 to Plate	0.02 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	9.5	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	2.7	pF

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

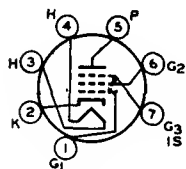
Plate Voltage	275	volts
Grid-No.2 (Screen-Grid) Supply Voltage	275	volts
Grid-No.2 Voltage	See curve page 98	
Cathode Current	22	mA
Plate Dissipation	2.5	watts
Grid-No.2 Input:		
For grid-No.2 voltages up to 137.5 volts	0.6	watt
For grid-No.2 voltages between 137.5 and 275 volts ..	See curve page 98	

CHARACTERISTICS

Plate Voltage	125	volts
Grid No.3	Connected to cathode at socket	
Grid-No.2 Voltage	125	volts
Cathode-Bias Resistor	68	ohms
Plate Resistance (Approx.)	18000	μmhos
Transconductance	0.15	megohm
Plate Current	11.5	mA
Grid-No.2 Current	3.9	mA
Grid-No.1 Voltage (Approx.) for plate current of 20 μA ..	—3.5	volts
Input Resistance at 44 MHz	4000	ohms

MAXIMUM CIRCUIT VALUE

Grid-No.1 Circuit Resistance, for cathode-bias operation	0.5	megohm
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7CM

**SEMIREMOTE-CUTOFF
PENTODE**

5JL6

Miniature type with frame grid used for agc-controlled if-amplifier applications in television receivers. Outlines section, 5C; requires miniature 7-contact socket. Heater: volts (ac/dc), 4.9; amperes, 0.45; warm-up time (average), 11 seconds; maximum heater-cathode volts, ± 200 peak, 100 average.

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

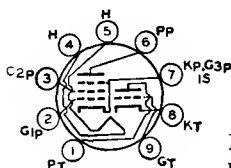
Plate Voltage	275	volts
Grid-No.2 (Screen-Grid) Supply Voltage	275	volts
Grid-No.2 Voltage	See curve page 98	
Plate Dissipation	2.5	watts
Cathode Current	22	mA
Grid-No.2 Input	0.6	watt

CHARACTERISTICS

Plate Voltage	125	volts
Grid-No.3 (Suppressor Grid)	Connected to cathode at socket	
Grid-No.2 Voltage	60	volts
Cathode-Bias Resistor	68	ohms
Plate Resistance (Approx.)	120000	ohms
Transconductance	15500	μ mhos
Plate Current	12.5	mA
Grid-No.2 Current	4	mA
Grid-No.1 Voltage (Approx.) for transconductance of 1500 μ mhos ..	-2.7	volts
Grid-No.1 Voltage (Approx.) for transconductance of 150 μ mhos ..	-5.5	volts

MAXIMUM CIRCUIT VALUE

Grid-No.1-Circuit Resistance, for fixed-bias operation	0.5	megohm
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9AE

**MEDIUM-MU TRIODE—
SHARP-CUTOFF PENTODE**

5KD8

Miniature type used as combined vhf oscillator and mixer tube in television receivers. Outlines section, 6B; requires miniature 9-contact socket.

Heater Voltage (ac/dc)	5.6	volts
Heater Current	0.45	ampere
Heater Warm-up Time	11	seconds
Heater-Cathode Voltage:		
Peak value	± 200 max	volts
Average value	100 max	volts

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

	Triode Unit	Pentode Unit	
Plate Voltage	330	330	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	0	volts
Plate Dissipation	2.5	3	watts
Grid-No.2 Input:			
For grid-No.2 voltages up to 165 volts	—	0.55	watt
For grid-No.2 voltages between 165 and 330 volts	See curve page 98		

CHARACTERISTICS

Plate Voltage	125	125	volts
Grid-No.2 Voltage	—	110	volts
Grid-No.1 Voltage	-1	-1	volt