

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance:

Grounded-cathode section	1	megohm
Grounded-grid section	0.5	megohm

* The dc component must not exceed 130 volts.

† Pins 6, 7, and 8.

• Pins 1, 2, and 3.

Refer to type 6EU8.

Refer to type 6EW6.

Refer to type 6FG7.

Refer to type 6FV8A.

Refer to type 6GH8A.

Refer to type 6GJ7/ECF801.

Refer to type 6GM6.

5EU8

5EW6

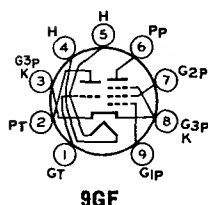
5FG7

5FV8

5GH8A

5GJ7

5GM6



9GF

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

5GS7

Miniature type used as frequency changer in vhf television tuners. Outlines section, 6B; requires miniature 9-contact socket. Heater: volts, 5.4; amperes 0.45; maximum heater-cathode volts, ± 100 .

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Center Values)

	Triode Unit	Pentode Unit	
Plate Voltage	125	250	volts
Grid-No.2 Input	—	150	volts
Cathode Current	15	18	mA
Plate Dissipation	1.5	2	watts
Grid-No. 2 Input	—	0.5	watt

CHARACTERISTICS

Plate Voltage	100	170	volts
Grid-No.2 Voltage	—	150	volts
Grid-No.1 (Control-Grid) Voltage	—3	—1.2	volts
Plate Resistance	—	0.35 min	megohm
Transconductance	5500	12000	megohm
Plate Current	14	10	mA
Grid-No.2 Current	—	3.3	mA
Amplification Factor	17	—	

MAXIMUM CIRCUIT VALUES

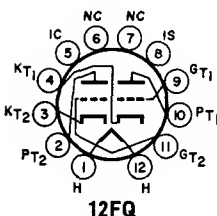
	Triode Unit	Pentode Unit	
Grid-No.1-Circuit Resistance	0.5	—	megohm
For fixed-bias operation	—	0.25	megohm
For automatic-bias operation	—	0.5	megohm

Refer to chart at end of section.

5GX6

Refer to chart at end of section.

5GX7



12FQ

DUAL TRIODE

5HA7

4HA7

Duodecar type used as a sync clipper and agc amplifier in television receivers. Outlines section, 8A; requires duodecar 12-contact socket. Type 4HA7 is identical with type 5HA7 except for the heater ratings.

Heater Voltage (ac/dc)	4HA7	5HA7	volts
Heater Current	4.2	5.6	ampere
	0.6	0.45	

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

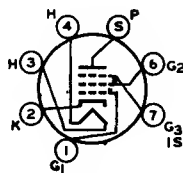
Refer to chart at end of section.

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