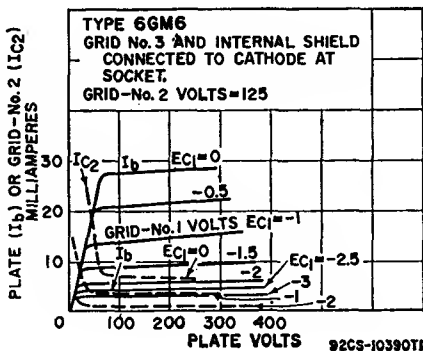


CHARACTERISTICS

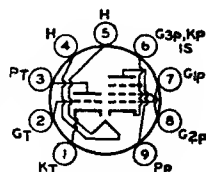
Plate Supply Voltage	125	volts
Grid-No.3	Connected to cathode at socket	
Grid-No.2 Supply Voltage	125	volts
Cathode-Bias Resistor	56	ohms
Plate Resistance (Approx.)	0.2	megohm
Transconductance	13000	μ mhos
Plate Current	14	mA
Grid-No.2 Current	3.4	mA
Grid-No.1 Voltage (Approx.) for transconductance of 60 μ mhos ..	-15	volts



6GN8

8GN8/8EB8
10GN8HIGH-MU TRIODE—
SHARP-CUTOFF PENTODE

Miniature type used in color and black-and-white television receiver applications. Triode unit is used as sync-separator, sync-clipper, phase inverter, or sound-if amplifier. Pentode unit is used in output stage of video amplifier. Outlines section, 6E; requires miniature 9-contact socket. For direct interelectrode capacitances, refer to type 6EB8; curve for average plate characteristics of triode unit is same as for type 6EB8. Types 8GN8/8EB8, and 10GN8 are identical with type 6GN8 except for heater ratings.



9DX

	6GN8	8GN8/8EB8	10GN8	
Heater Voltage (ac/dc)	6.3	8	10.5	volts
Heater Current	0.75	0.6	0.45	ampere
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

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 300	
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volt
Plate Dissipation	1	5	watts
Grid-No.2 Input:			
For grid-No.2 voltages up to 165 volts	—	1.1	watts
For grid-No.2 voltages between 165 and 330 volts	—	See curve page 300	

CHARACTERISTICS

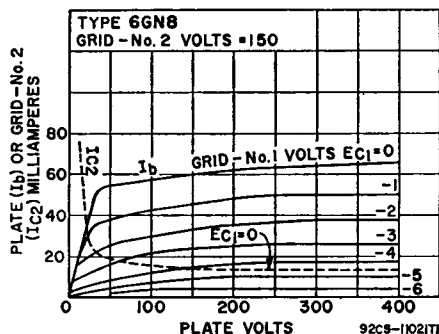
	Triode Unit	Pentode Unit	
Plate Supply Voltage	250	60	200
Grid-No.2 Supply Voltage	—	150	150
Grid-No.1 Voltage	-2	0	—
Cathode-Bias Resistor	—	—	100
Amplification Factor	100	—	—
Plate Resistance (Approx.)	37000	—	60000
			ohms

	Triode Unit	Pentode Unit	
Transconductance	2700	— 11500	μ mhos
Plate Current	2	55*	mA
Grid-No.2 Current	—	18*	mA
Grid Voltage (Approx.) for plate current of 20 μ A	—5	—	volts
Grid-No.1 Voltage (Approx.) for plate current of 100 μ A	—	—10	volts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:			
For fixed-bias operation	0.5	0.25	megohm
For cathode-bias operation	1	1	megohm

* This value can be measured by a method involving a recurrent waveform such that the maximum ratings of the tube will not be exceeded.



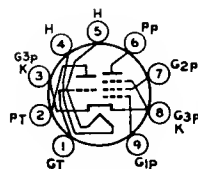
Refer to chart at end of section.

6GQ7

MEDIUM-MU TRIODE— SHARP-CUTOFF PENTODE

6GS7

5GS7, 7GS7



9GF

Miniature type used as a frequency changer in vhf television tuners. Outlines section, 6B; requires 9-contact socket. Types 5GS7 and 7GS7 are identical with type 6GS7 except for heater ratings. Heater: volts, 7.6; ampere, 0.3; maximum heater-cathode volts, ± 100 peak, 100 average.

	5GS7	6GS7	7GS7	
Heater Voltage	5.4	6.3	7.6	volts
Heater Current	0.45	0.375	0.3	ampere
Heater-Cathode Voltage:				
Peak value	± 200 max	± 200 max	± 200 max	volts
Average value	100 max	100 max	100 max	volts

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Center Values)

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

CHARACTERISTICS

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