

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:

For fixed-bias operation

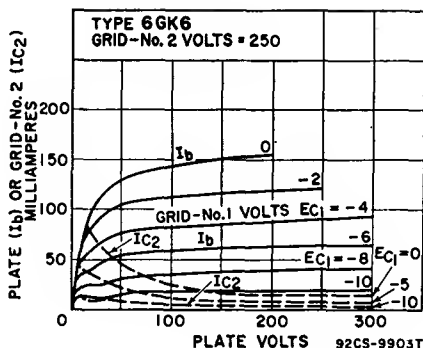
0.3

megohm

For cathode-bias operation

1

megohm



For replacement use type 6AU4GTA.

6GK17

Refer to chart at end of section.

6GL7

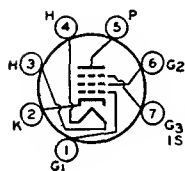
Refer to chart at end of section.

6GM5

SEMIREMOTE-CUTOFF
PENTODE

6GM6

5GM6



7CM

Miniature type used in gain-controlled picture-if stages of color and black-and-white television receivers operating at intermediate frequencies in the order of 40 MHz. Outlines section, 5C; requires 7-contact socket. Type 5GM6 is identical with type 6GM6 except for heater ratings.

	5GM6	6GM6	
Heater Voltage (ac/dc)	5.6	6.3	volts
Heater Current	0.45	0.4	ampere
Heater Warm-up Time (Average)	11	—	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts
Direct Interelectrode Capacitances:	Unshielded	Shielded*	
Grid No.1 to Plate	0.036 max	0.026 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	10	10	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	2.4	3.4	pF

* With external shield connected to cathode.

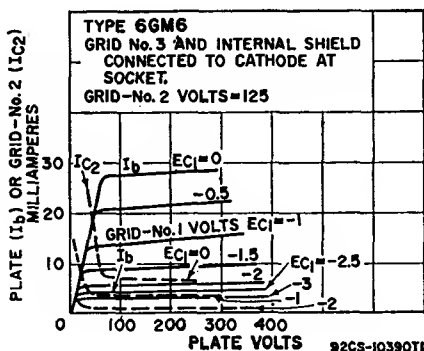
Class A₁ Amplifier

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	3.1	watts
Grid-No.2 Input:		
For grid-No.2 voltages up to 165 volts	0.65	watt
For grid-No.2 voltages between 165 and 330 volts	See curve page 300	

CHARACTERISTICS

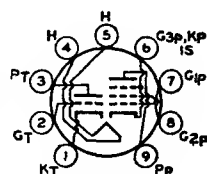
Plate Supply Voltage	125	volts
Grid-No.3	Connected to cathode at socket	
Grid-No.2 Supply Voltage	125	volts
Cathode-Bias Resistor	56	ohms
Plate Resistance (Approx.)	0.2	megohm
Transconductance	13000	μ mhos
Plate Current	14	mA
Grid-No.2 Current	3.4	mA
Grid-No.1 Voltage (Approx.) for transconductance of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

	Triode Unit	Pentode Unit	
MAXIMUM RATINGS (Design-Maximum Values)			
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