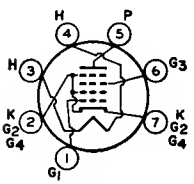
Peak Negative-Pulse Plate Voltage	1500	volts
DC Grid-No.2 Voltage	220	volts
DC Grid-No.1 Voltage	—55	volts
Peak Negative-Pulse Grid-No.1 Voltage	330	volts
Peak Cathode Current	550	mA
Average Catbode Current	175	mA
Plate Dissipation•	17.5	watts
Grid-No.2 Input	3.5	watts
Bulb Temperature (At hottest point)	240	°C
MAXIMUM CIRCUIT VALUE		
Grid-No.1-Circuit Resistance, for grid-resistor-bias operation•	1	megohm

Pulse duration must not exceed 15% of a horizontal scanning cycle (10 microseconds).
• A bias resistor or other means is required to protect the tube in absence of excitation.



7GA

BEAM HEXODE

6GU5

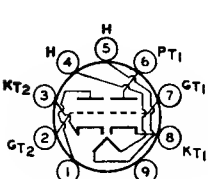
2GU5

Miniature type used as rf amplifier in vhf television receivers. **Outlines section, 5C;** requires miniature 7-contact socket. Type 2GU5 is identical with type 6GU5 except for heater ratings.

	2GU5	6GU5	
Heater Voltage (ac/dc)	2.4	6.3	volts
Heater Current	0.6	0.22	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:			
Grid No.1 to Plate		0.018	pF
Grid No.1 to Catbode, Heater, Grid No.2, Grid No.3, and Grid No.4		7	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Grid No.4		3.2	pF

Class A_1 Amplifier

MAXIMUM RATINGS (Design-Maximum Values)			
Plate Voltage		300	volts
Grid-No.3 (Screen-Grid) Voltage:		150	volts
DC Grid-No.1 (Control-Grid) Voltage:			
Positive-bias value		0	volts
Negative-bias value		50	volts
Average Cathode Current		20	mA
Plate Dissipation		3	watts
Grid-No.3 Input		0.15	watts
CHARACTERISTICS			
Plate Voltage	135	275	volts
Grid-No.3 Voltage	135	135	volts
Grid-No.1 Voltage	—0.4	—0.4	volts
Plate Resistance (Approx.)	0.67	0.165	megohms
Transconductance	15000	15500	μmhos
Plate Current	9	10	mA
Grid-No.3 Current	0.25	0.17	mA
Grid-No.1 Voltage (Approx.) for transconductance of 100 μmhos	—6.2	—6.5	volts
MAXIMUM CIRCUIT VALUE			
Grid-No.1-Circuit Resistance, for fixed-bias operation		0.5	megohm



9LP

MEDIUM-MU TWIN TRIODE

6GU7

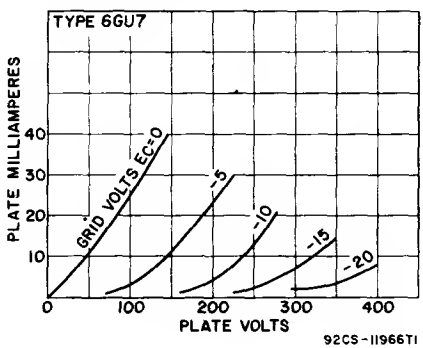
8GU7

Miniature type used in the matrixing circuits of color and black-and-white television receivers and in phase-inverter, multivibrator, and general-purpose amplifier applications. **Outlines section, 6E;** requires miniature 9-contact socket. Type 8GU7 is identical with type 6GU7 except for heater ratings.

	6GU7	8GU7	
Heater Voltage (ac/dc)	6.3	8.4	volts
Heater Current	0.6	0.45	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 (Approx.):	Unit No.1	Unit No.2	
Grid to Plate	3	3	pF
Grid to Cathode and Heater	3.4	3.6	pF
Plate to Cathode and Heater	0.44	0.34	pF
Plate of Unit No.1 to Plate of Unit No.2	1		pF

Class A_1 Amplifier

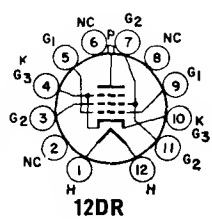
MAXIMUM RATINGS (Design-Maximum Values)		
Plate Voltage	330	volts
Grid Voltage, Positive-bias value	0	volts
Plate Dissipation	3	watts
CHARACTERISTICS		
Plate Voltage	250	volts
Grid Voltage	—10.5	volts
Amplification Factor	17	
Plate Resistance (Approx.)	5500	ohms
Transconductance	3100	μmhos
Plate Current	11.5	mA
Grid Voltage (Approx.) for plate current of 50 μA	—23	volts
Plate Current for grid voltage of —14 volts	4	mA
MAXIMUM CIRCUIT VALUE		
Grid-Circuit Resistance, for fixed-bias operation	1	megohm



6GV5

17GV5

BEAM POWER TUBE



Duodecar type used as horizontal-deflection amplifier in television receivers. Outlines section, 16A; requires duodecar 12-contact socket. Type 17GV5 is identical with type 6GV5 except for heater ratings.

	6GV5	17GV5	
Heater Voltage (ac/dc)	6.3	16.8	volts
Heater Current	1.2	0.45	amperes
Heater Warm-up Time (Average)	—	11	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts

Class A_1 Amplifier

CHARACTERISTICS	Pentode Connection			Triode* Connection	
Plate Voltage	5000	60	250	150	volts
Grid-No.2 (Screen-Grid) Voltage	150	150	150	150	volts
Grid-No.1 (Control-Grid) Voltage	—	0	—22.5	—22.5	volts