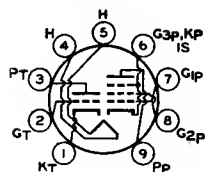


HIGH-MU TRIODE— SHARP-CUTOFF PENTODE

6GN8

8GN8, 10GN8



9DX

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 and 10GN8 are identical with type 6GN8 except for heater ratings.

	6GN8	8GN8	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 98	
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 98	

CHARACTERISTICS

	Triode Unit	Pentode Unit	
Plate Supply Voltage	250	60 200	volts
Grid-No.2 Supply Voltage	—	150 150	volts
Grid-No.1 Voltage	—2	0	volts
Cathode-Bias Resistor	—	100	ohms
Amplification Factor	100	—	
Plate Resistance (Approx.)	37000	60000	ohms
Transconductance	2700	11500	μmhos
Plate Current	2	55 25	mA
Grid-No.2 Current	—	18 5.5	mA
Grid Voltage (Approx.) for plate current of 20 μA	—5	—	volts
Grid-No.1 Voltage (Approx.) for plate current of 100 μA	—	—10	volts

MAXIMUM CIRCUIT VALUES

	Triode Unit	Pentode Unit	
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.

