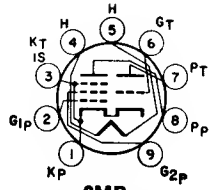
6HG8 Refer to chart at end of section.

6HG8/ ECF86

7HG8/PCF86

MEDIUM-MU TRIODE— SHARP-CUTOFF PENTODE



9MP

Miniature type with frame-grid pentode unit used as combined oscillator and mixer tubes in vhf color and black-and-white television receivers. **Outlines section,** 6B; requires miniature 9-contact socket. Type 7HG8/PCF86 is identical with type 6HG8/ECF86 except for slightly higher current and dissipation ratings and for heater ratings.

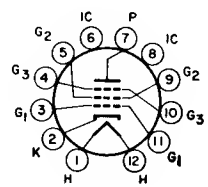
	6HG8/ ECF86	7HG8/ PCF86	
Heater Voltage (ac/dc)	6.3	7.2	volts
Heater Current	0.34	0.3	ampere
Peak Heater-Cathode Voltage	±100 max	±100 max	volts

Class A_1 Amplifier

MAXIMUM RATINGS (Design-Maximum Values)	Triode Unit	Pentode Unit	
Plate Voltage	125	250	volts
Grid-No.2 (Screen-Grid) Voltage	—	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
Amplification Factor	17	—	
Mu-Factor, Grid No.2 to Grid No.1	—	70	
Plate Resistance (Approx.)	—	0.35	megohm
Transconductance	5500	12000	μmhos
Plate Current	14	10	mA
Grid-No.2 Current	—	3.3	mA
MAXIMUM CIRCUIT VALUES			
Grid-No.1-Circuit Resistance:			
For fixed-bias operation	—	0.25	megohm
For cathode-bias operation	0.5	0.5	megohm

6HJ5

BEAM POWER TUBE



12FL

Duodecar type used as horizontal-deflection amplifier in television receivers. **Outlines section,** 15C; requires duodecar 12-contact socket.

Heater Voltage (ac/dc)	6.3	volts
Heater Current	2.25	amperes
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts

Class A_1 Amplifier

CHARACTERISTICS					
Plate Voltage	20	40	60	135	volts
Grid-No.2 (Screen-Grid) Voltage	110	110	135	135	volts
Grid No.3	Connected to cathode at socket				
Grid-No.1 (Control-Grid) Voltage	0	0	0	—22	volts