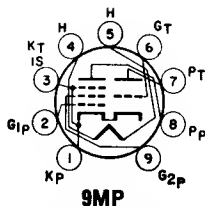


6HG8

Refer to chart at end of section.

**6HG8/
ECF86****7HG8/PCF86****MEDIUM-MU TRIODE—
SHARP-CUTOFF PENTODE**

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.

Heater Voltage (ac/dc)	
Heater Current	
Peak Heater-Cathode Voltage	

6HG8/ ECF86	7HG8/ PCF86
6.3	7.2
0.34	0.3
±100 max	±100 max

volts
ampere
volts

Class A₁ Amplifier**MAXIMUM RATINGS (Design-Maximum Values)**

Plate Voltage	125
Grid-No.2 (Screen-Grid) Voltage	—
Cathode Current	15
Plate Dissipation	1.5
Grid-No.2 Input	—

Triode Unit Pentode Unit

250	volts
150	volts
18	mA
2	watts
0.5	watt

CHARACTERISTICS

Plate Voltage	100
Grid-No.2 Voltage	—
Grid-No.1 (Control-Grid) Voltage	—3
Amplification Factor	17
Mu-Factor, Grid No.2 to Grid No.1	—
Plate Resistance (Approx.)	—
Transconductance	5500
Plate Current	14
Grid-No.2 Current	—

170	volts
150	volts
—1.2	volts
—	
70	
0.35	megohm
12000	μmhos
10	mA
3.3	mA

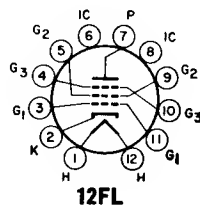
MAXIMUM CIRCUIT VALUES

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

0.25	megohm
0.5	megohm

6HJ5**BEAM POWER TUBE**

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

**12FL**

Heater Voltage (ac/dc)	
Heater Current	
Heater-Cathode Voltage:	
Peak value	
Average value	

6.3	volts
2.25	amperes
±200 max	volts
100 max	volts

Class A₁ Amplifier**CHARACTERISTICS**

Plate Voltage	20
Grid-No.2 (Screen-Grid) Voltage	110
Grid No.3	0
Grid-No.1 (Control-Grid) Voltage	0

40	60	135	volts
110	110	135	volts
Connected to cathode at socket			
0	0	—22	volts