

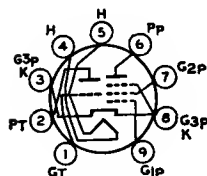
Equivalent Resistance of Reference Supply	1000	ohms
Effective Grid-Plate Transconductance	200	μ mbos
DC Plate Current for Load Current of 0 mA	1000	μ A
DC Plate Current for Load Current of 1 mA	45	μ A
Regulated DC Output Voltage for Load Current of 0 mA	25000	volts
Regulated DC Output Voltage for Load Current of 1 mA	24500	volts

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance:

For use with "Flyback Transformer" high voltage supply 3 megohms

* For interval of 20 seconds maximum during equipment warm-up period.

**9GF****MEDIUM-MU TRIODE—
SHARP-CUTOFF PENTODE****6LJ8**

4LJ8, 5LJ8

Miniature type used as a combined oscillator and mixer in vhf television receivers. Outlines section, 6B; requires 9-contact socket. Types 4LJ8 and 5LJ8 are identical with type 6LJ8 except for heater ratings.

	4LJ8	5LJ8	6LJ8	
Heater Voltage (ac/dc)	4.3	5.6	6.3	volts
Heater Current	0.6	0.45	0.4	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	280	280	volts
Grid-No.2 (Screen-Grid) Supply Voltage	—	280	volts
Grid-No.2 Voltage	—	See curve page 98	
Cathode Current	20	20	mA
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volts
Plate Dissipation	2	2	watts
Grid-No.2 Input:			
For grid-No.2 voltages up to 140 volts	—	0.5	watts
For grid-No.2 voltages between 140 and 280 volts	—	See curve page 98	

CHARACTERISTICS

Plate Voltage	125	125	volts
Grid-No.2 Voltage	—	125	volts
Cathode-Bias Resistor	68	33	ohms
Amplification Factor	40	—	
Plate Resistance (Approx.)	5000	125000	ohms
Transconductance	8000	13000	μ mbos
Plate Current	13	12	mA
Grid-No.2 Current	—	3.5	mA
Grid-No.1 Voltage (Approx.) for plate current of 30 μ A	—6.5	—4	volts

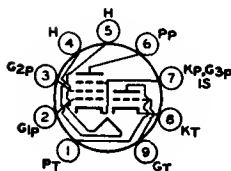
MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:

For fixed-bias operation	1	0.5	megohm
For cathode-bias operation	0.5	0.25	megohm

**MEDIUM-MU TRIODE—SEMI-
REMOTE-CUTOFF PENTODE****6LM8**

Miniature type used in color and black-and-white television receiver applications. The pentode unit is used in burst-amplifier circuits, and the triode unit as a general-purpose amplifier tube. Outlines section, 6B; requires miniature 9-contact socket.

**9AE**

Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.45	ampere
Heater-Cathode Voltage:		
Peak value	± 200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances:		
Triode Unit:		
Grid to Plate	1.8	pF
Grid to Cathode, Heater, Pentode Cathode, Pentode Grid No.3, and Internal Shield	3.2	pF
Plate to Cathode, Heater, Pentode Cathode, Pentode Grid No.3, and Internal Shield	1.9	pF
Pentode Unit:		
Grid No.1 to Plate	0.015 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	5.5	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	3.8	pF
Heater to Cathode (Each Unit)	3.2	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330
Grid-No.2 (Screen-Grid) Supply Voltage	—
Grid-No.2 Voltage	See curve
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0
Plate Dissipation	2.5
Grid-No.2 Input:	
For grid-No.2 voltages up to 165 volts	—
For grid-No.2 voltages between 165 and 330 volts	See curve

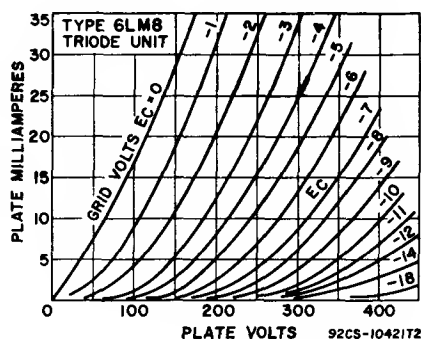
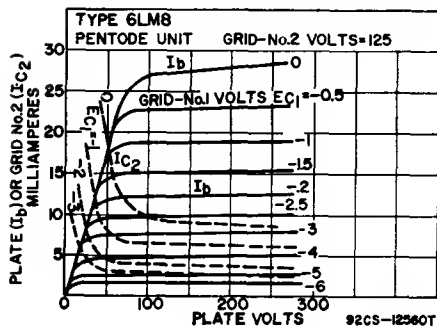
Triode Unit	Pentode Unit	
330	350	volts
—	330	volts
See curve	page 98	
0	0	volts
2.5	2.5	volts
—	0.55	watts
See curve	page 98	

CHARACTERISTICS

Plate Voltage	125	125	volts
Grid-No.2 Voltage	—	125	volts
Grid No.1 Voltage	—1	—2	volts
Amplification Factor	46	—	
Plate Resistance (Approx.)	5400	15000	ohms
Transconductance	8500	6000	μ mhos
Plate Current	13.5	12	mA
Grid-No.2 Current	—	4	mA
Grid-No.1 Voltage (Approx.) for plate current of 10 μ A	—8	—14	volts

MAXIMUM CIRCUIT VALUES

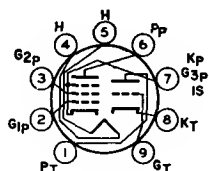
Grid-No.1-Circuit Resistance:			
For fixed-bias operation	0.5	0.25	megohm
For cathode-bias operation	1	0.5	megohm



**6LN8/
LCF80**

**MEDIUM-MU TRIODE—
SHARP-CUTOFF PENTODE**

Miniature type used in frequency-changer service in television receivers. Outlines section, 6B; requires miniature 9-contact socket.



9DC