

Plate to Triode Cathode, Pentode Cathode, Heater, Pentode Grid No.3, and Internal Shield	1.4	pF
Pentode Unit:		
Grid No.1 to Plate	0.045	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	7.5	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	2.2	pF

Class A₁ Amplifier

MAXIMUM RATINGS

	Triode Unit	Pentode Unit	
DC Plate Voltage	330	330	volts
DC Grid-No.2 (Screen-Grid) Supply Voltage	—	330	volts
DC Grid-No.2 Voltage	—	See curve page 300	
DC Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volt
Plate Dissipation	2.7	2.5	watts
Grid-No.2 Input:			
For grid-No.2 voltages up to 165 volts	—	0.55	watt
For grid-No.2 voltages between 165 and 330 volts	—	See curve page 300	
Interelectrode Leakage	109	100	megohms

CHARACTERISTICS

	Triode Unit	Pentode Unit	
DC Plate Voltage	150	125	volts
DC Grid-No.2 Voltage	—	125	volts
Cathode Resistance	56	62	ohms
Amplification Factor	40	—	
Plate Resistance (Approx.)	5	150	kohms
Transconductance	8500	10000	μmhos
DC Plate Current	18	12	mA
DC Grid-No.2 Current	—	4.5	mA
Grid-No.1 Voltage for plate current of 100 μA	—12	—7	volts

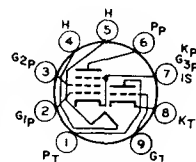
MAXIMUM CIRCUIT VALUES

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

6MU8

MEDIUM-MU TRIODE— SEMIREMOTE-CUTOFF PENTODE

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 amplifier tube. Outlines section, 6E; requires miniature 9-contact socket.



9AE

Heater Voltage	6.3	volts
Heater Current	0.6	ampere
Heater Warm-up Time	11	seconds
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts

Direct Interelectrode Capacitances:

	With Shield	Without Shield	
Triode Unit:			
Grid to Plate	2.2	2.2	pF
Grid to Cathode, Heater, Pentode Cathode, Pentode Grid No.3, and Internal Shield	3.2	3	pF
Plate to Cathode, Heater, Pentode Cathode, Pentode Grid No.3, and Internal Shield	3.4	2.2	pF
Pentode Unit:			
Grid No.1 to Plate	0.05	0.05	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	9	9	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	4.4	3.6	pF
Heater to Triode Cathode	4.8	4.4	
Heater to Pentode Cathode	7.5	5.5	pF
Pentode Grid No.1 to Triode Plate	0.2	0.17	pF
Pentode Plate to Triode Plate	0.008	0.09	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330
Grid-No.2 (Screen-Grid) Supply Voltage	—
Grid-No.2 Voltage	—
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0
Grid-No.2 Input	2.5
Plate Dissipation	—

Triode Unit	Pentode Unit	
330	330	volts
—	330	volts
—	See curve page 300	
0	0	volts
2.5	3.75	watts
—	1.1	watts

CHARACTERISTICS

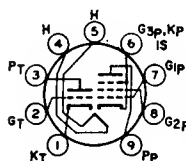
Plate Voltage	125	volts
Grid-No.2 Voltage	—	volts
Grid-No.1 Voltage	—1	volts
Cathode Bias Resistor	—	ohms
Plate Current	11.5	mA
Grid-No.2 Current	—	mA
Transconductance	6000	μmhos
Amplification Factor	35	—
Plate Resistance (Approx.)	5800	ohms
Grid-No.1 Voltage (Approx.) for plate current of 10 μA	—5.8	volts
Grid-No.1 Voltage (Approx.) for plate current of 20 μA	—	volts

Triode Unit	Pentode Unit	
125	150	volts
—	150	volts
—1	—	volts
—	150	ohms
11.5	19	mA
—	4.2	mA
6000	9000	μmhos
35	—	—
5800	165000	ohms
—5.8	—	volts
—	—9.5	volts

MAXIMUM CIRCUIT VALUES

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

0.25	megohm
1	megohm



9DX

HIGH-MU TRIODE—
SHARP-CUTOFF PENTODE

6MV8

Miniature type used for general-purpose applications. The pentode unit is used as an if-amplifier, and the triode unit as a sync-separator or voltage amplifier. Outlines section, 6B; requires miniature 9-contact socket. Heater: volts, 6.3; ampere, 0.6; maximum heater-cathode volts, ±200 peak, 100 average.

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	330
Grid-No. 2 (Screen-Grid) Supply Voltage	—
Grid-No. 2 Voltage	—
Grid-No. 1 (Control-Grid) Voltage, Positive bias value	0
Plate Dissipation	1
Grid-No. 2 Input	—

Triode Unit	Pentode Unit	
330	330	volts
—	330	volts
—	See curve page 300	
0	0	volts
1	2.5	watts
—	0.55	watts

CHARACTERISTICS

Plate Voltage	250	volts
Grid-No. 2 Voltage	—	volts
Grid-No. 1 Voltage	—2	volts

Triode Unit	Pentode Unit	
250	125	volts
—	125	volts
—2	—1	volts
2.5	13	mA
—	4	mA
4000	9000	μmhos
100	—	—
25000	150000	ohms
—4.5	—6	volts

MAXIMUM CIRCUIT VALUES

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

0.25	megohms
1	megohms

Refer to chart at end of section.

6N6G