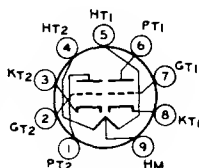


6112	Refer to chart at end of section.
6136	Refer to chart at end of section.
6186	Refer to chart at end of section.
6186/6AG5WA	Refer to chart at end of section.
6186W	Refer to chart at end of section.
6189	Refer to chart at end of section.
6197	Refer to chart at end of section.

6201INDUSTRIAL
TYPE**HIGH-MU TWIN TRIODE**

Miniature type used in mixer, oscillator, and amplifier applications at frequencies up to 300 MHz. Outlines section, 6B; requires miniature 9-contact socket. For typical operation as a resistance-coupled amplifier, refer to Resistance-Coupled Amplifier section, type 12AT7 conditions.

**9A**

Heater Arrangement:	Series	Parallel	
Heater Voltage (ac/dc)	12.6	6.3	volts
Heater Current	0.15	0.3	ampere
Peak Heater-Cathode Voltage		±100 max.	volts
Direct Interelectrode Capacitances (Approx.):			
Grid-Drive Operation:			
Grid to Plate (Each unit)		1.6	pF
Grid to Cathode and Heater (Each unit)		2.5	pF
Plate to Cathode and Heater:			
Unit No.1		0.45	pF
Unit No.2		0.38	pF
Heater to Cathode (Each unit)		2.8	pF
Cathode-Drive Operation:			
Cathode to Plate (Unit No.1)		0.2	pF
Cathode to Plate (Unit No.2)		0.24	pF
Cathode to Grid and Heater (Each unit)		5	pF
Plate to Grid and Heater (Unit No.1)		1.9	pF
Plate to Grid and Heater (Unit No.2)		1.8	pF

Class A₁ Amplifier (Each Unit)**MAXIMUM RATINGS (Absolute-Maximum Values)**

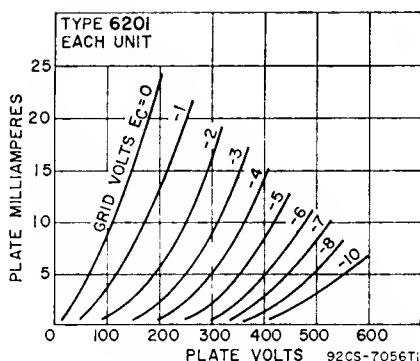
Plate Voltage	330	volts
Grid Voltage:		
Negative bias value	55	volts
Positive bias value	0	volt
Plate Dissipation	2.75	watts
Bulb Temperature (At hottest point on bulb surface)	180	°C

MAXIMUM CIRCUIT VALUES

Grid-Circuit Resistance:		
For fixed-bias operation	0.25	megohm
For cathode-bias operation	1.0	megohm

CHARACTERISTICS

Plate Supply Voltage	100	250	volts
Cathode-Bias Resistor	270	200	ohms
Amplification Factor	57	60	
Plate Resistance (Approx.)	14300	10900	ohms
Transconductance	4000	5500	μmhos
Grid Voltage (Approx.) for plate current of 10 μA ..	—5	—12	volts
Plate Current	3.3	10	mA



Special Ratings & Performance Data

SHOCK RATING

Impact Acceleration

600 max. g

FATIGUE RATING

Vibrational Acceleration

2.5 max. g

LOW-FREQUENCY VIBRATION PERFORMANCE

RMS Output Voltage

100 max. mV

HEATER-CYCLING LIFE PERFORMANCE

Cycles of Intermittent Operation

2000 min. cycles

AUDIO-FREQUENCY NOISE AND MICROPHONIC PERFORMANCE

RMS Output Voltage

100 max. mV

Refer to chart at end of section.

6202

Refer to chart at end of section.

6206

Refer to chart at end of section.

6211

Refer to chart at end of section.

6336A

Refer to chart at end of section.

6350

Refer to chart at end of section.

6360
6360A

Refer to chart at end of section.

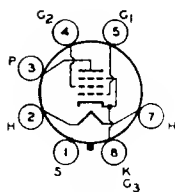
6386

Refer to chart at end of section.

6417

Refer to chart at end of section.

6485



7S

BEAM POWER TUBE

6550

**INDUSTRIAL
TYPE**

Glass octal type used in the output stages of high-fidelity audio amplifiers. **Outlines section, 27C**; requires octal socket. This tube should be adequately ventilated.

Heater Voltage (ac/dc)

6.3 volts

Heater Current

1.6 amperes

Peak Heater-Cathode Voltage:

Heater negative with respect to cathode

300 max. volts

Heater positive with respect to cathode

200* max. volts