

Direct Interelectrode Capacitances:

Grid No.1 to Plate	0.063	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	10.2	pF
Plate to Cathode, Heater, Grid No.2, and Internal Shield	3.5	pF

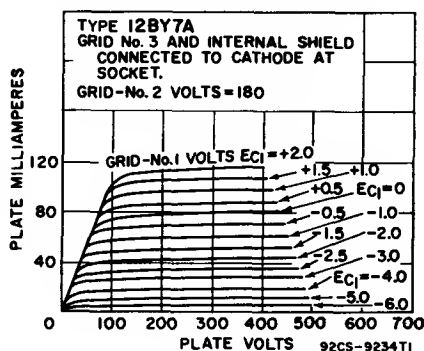
Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Supply Voltage	330	volts
Grid-No.3 (Suppressor-Grid) Voltage, Positive value	0	volts
Grid-No.2 (Screen-Grid) Voltage	190	volts
Grid-No.1 (Control-Grid) Voltage		
Negative-bias value	55	volts
Positive-bias value	0	volts
Plate Dissipation	6.5	watts
Grid-No.2 Input	1.2	watts

CHARACTERISTICS

Plate Supply Voltage	250	volts
Grid No.3	Connected to cathode at socket	
Grid-No.2 Supply Voltage	180	volts
Cathode-Bias Resistor	100	ohms
Plate Resistance (Approx.)	93000	ohms
Transconductance	11000	μmhos
Plate Current	26	mA
Grid-No.2 Current	5.75	mA
Grid-No.1 Voltage (Approx.) for plate current of 20 μA	-11.6	volts



MAXIMUM CIRCUIT VALUES

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

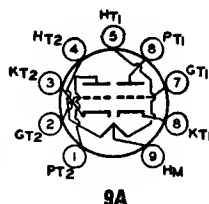
12BZ6

Refer to type 6BZ6.

12BZ7

HIGH-MU TWIN TRIODE

Miniature type used in sync-separator and sync-amplifier circuits of television receivers, and in clipping circuits and audio-amplifier applications. Outlines section, 6E; requires miniature 9-contact socket.



Heater Voltage	Series 12.6	Parallel 6.3	volts
Heater Current	0.3	0.6	ampere
Peak Heater-Cathode Voltage	±180 max	±180 max	volts
Direct Interelectrode Capacitances:			
Grid to Plate	Unit No.1 2.5	Unit No.2 2.5	pF
Grid to Cathode, and Heater	6.5	6.5	pF
Plate to Cathode, and Heater	0.7	0.55	pF
Plate of Unit No.1 to Plate of Unit No.2		1.3	pF

Class A₁ Amplifier (Each Unit)**MAXIMUM RATINGS (Design-Center Values)**

Plate Voltage	300	volts
Grid Voltage:		
Negative-bias value	50	volts
Positive-bias value	0	volts
Plate Dissipation	1.5	watts

CHARACTERISTICS

Plate Voltage	250	volts
Grid Voltage	—2	volts
Amplification Factor	100	
Plate Resistance (Approx.)	31800	ohms
Transconductance	3200	μmhos
Plate Current	2.5	mA

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance for contact-potential-bias operation	5	megohms
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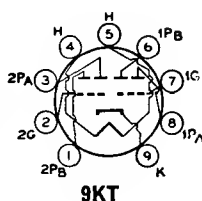
Refer to type 6CU5.	12C5
Refer to chart at end of section.	12C8
Refer to type 6CA5.	12CA5
Refer to type 6CK3.	12CK3
Refer to type 6CL3.	12CL3
Refer to chart at end of section.	12CN5
Refer to type 6CR6.	12CR6
Refer to type 6CS6.	12CS6
Refer to chart at end of section.	12CT8
Refer to type 6CU5.	12CU5/12C5
Refer to chart at end of section.	12CX6
Refer to type 6DA4.	12D4
Refer to type 6DB5.	12DB5
Refer to chart at end of section.	12DE8
Refer to type 6DK6.	12DK6
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	12DM4A
Refer to chart at end of section.	12DQ6A
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	12DS7A
Refer to type 6DT5.	12DT5
Refer to type 6DT8.	12DT8
Refer to chart at end of section.	12DU7
Refer to chart at end of section.	12DV8
Refer to chart at end of section.	12DW7
Refer to chart at end of section.	12DY8
Refer to chart at end of section.	12DZ6

12EA6	Refer to chart at end of section.
12EC8	Refer to chart at end of section.
12ED5	Refer to chart at end of section.
12EG6	Refer to chart at end of section.
12EH5	Refer to chart at end of section.
12EK6	Refer to chart at end of section.
12EL6	Refer to chart at end of section.
12EM6	Refer to chart at end of section.
12EN6	Refer to chart at end of section.
12EQ7	Refer to type 6EQ7.
12F5GT	Refer to chart at end of section.
12F8	Refer to chart at end of section.
12FK6	Refer to chart at end of section.
12FM6	Refer to chart at end of section.

12FQ8

HIGH-MU TWIN DOUBLE-PLATE TRIODE

Miniature type used in frequency-divider and complex-wave-generator circuits of electronic musical instruments. Outlines section, 6B; requires miniature 9-contact socket.



9KT

Heater Voltage (ac/dc)	12.6	volts
Heater Current	0.15	ampere
Heater-Cathode Voltage:		
Peak value	±200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances (Approx.):		
Grid to Either Plate (Each Unit)	0.9	pF
Grid to Cathode, and Heater (Each Unit)	1.8	pF
Plate A of Unit No.1 to Cathode, and Heater	0.34	pF
Plate B of Unit No.1 to Cathode, and Heater	0.24	pF
Plate A of Unit No.2 to Cathode, and Heater	0.3	pF
Plate B of Unit No.2 to Cathode, and Heater	0.18	pF
Plate A to Plate B (Each Unit)	0.7	pF
Plate A of Unit No.1 to Plate A of Unit No.2	0.4	pF

Class A₁ Amplifier (Each Unit)

CHARACTERISTICS*		
Plate Voltage	250	volts
Grid Voltage	—1.5	volts
Amplification Factor	95	
Plate Resistance (Approx.)	76000	ohms
Transconductance	1250	μmhos
Plate Current	1.5	mA

* Using either plate A or plate B, with plate not in use connected to ground.

Frequency-Divider and Complex-Wave Generator (Each Unit)

MAXIMUM RATINGS (Design-Maximum Values)

Plate A Voltage	330	volts
Plate B Voltage	330	volts
Grid Voltage, Positive-bias value	0	volts
Plate A Dissipation	0.5	watt
Plate B Dissipation	0.5	watt

12FR8

Refer to chart at end of section.