

	Triode Unit No. 1	Triode Unit No. 2	Pentode Unit	
Plate Dissipation	1.5	—	3.5	watts
Grid-No.2 Input	—	—	1.5	watts
CHARACTERISTICS				
Plate Voltage	200	200	35	150 volts
Grid-No.2 Voltage	—	—	100	100 volts
Grid-No.1 Voltage	—	—	0	— volts
Cathode-Bias Resistor	270	470	—	82 ohms
Amplification Factor	69	40	—	—
Plate Resistance (Approx.)	12500	7600	—	51000 ohms
Transconductance	5500	5300	—	19000 μ mhos
Plate Current	7.1	7.2	54	17.4 mA
Grid-No.2 Current	—	—	13.5	3.2 mA
Grid-No.1 Voltage (Approx.) for plate current of 100 μ A	—	—8	—	—6.6 volts
Grid-No.1 Voltage (Approx.) for plate current of 50 μ A	—5.5	—	—	— volts
MAXIMUM CIRCUIT VALUES				
Grid-No.1-Circuit Resistance:				
For fixed-bias operation	0.5	0.5	0.05	megohm
For cathode-bias operation	1	1	0.1	megohm

11CY7

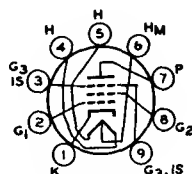
Refer to type 6CY7.

11FY7

Refer to type 6FY7.

11HM7**SHARP-CUTOFF PENTODE**

Miniature type with frame grid used as video output amplifier in color television receivers. Outlines section, 6E; requires miniature 9-contact socket.

**9BF**

	Series	Parallel	
Heater Arrangement	11	5.5	volts
Heater Voltage (ac/dc)	0.3	0.6	ampere
Heater Current			
Heater-Cathode Voltage:			
Peak value		± 200 max	volts
Average value		100 max	volts
Direct Interelectrode Capacitances:			
Grid No.1 to Plate		0.15 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield		14	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield		5	pF

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

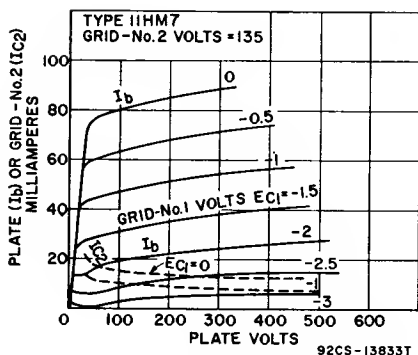
Plate Voltage	330	volts
Grid-No.2 (Screen-Grid) Supply Voltage	330	volts
Grid-No.2 Voltage	See curve page 98	
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	volts
Plate Dissipation	7	watts
Grid-No.2 Input:		
For grid-No.2 voltages up to 165 volts	1	watt
For grid-No.2 voltages between 165 and 330 volts	See curve page 98	

CHARACTERISTICS

Plate Supply Voltage	200	volts
Grid-No.3 Voltage	0	volts
Grid-No.2 Voltage	135	volts
Cathode-Bias Resistor	47	ohms
Plate Resistance (Approx.)	40000	ohms
Transconductance	30000	μ mhos
Plate Current	30	mA
Grid-No.2 Current	5.2	mA
Grid-No.1 Voltage (Approx.) for plate current of 100 μ A	—4.5	volts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.1	megohm
For cathode-bias operation	0.25	megohm



Refer to type 6JE8.

Refer to type 6KV8.

Refer to type 6LQ8.

Refer to chart at end of section.

Refer to type 6Y9.

Refer to chart at end of section.

Refer to chart at end of section.

Refer to chart at end of section.

11JE8

11KV8

11LQ8

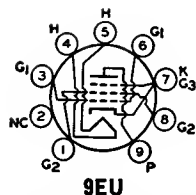
11Y9

11Y9/LFL200

12A5

12A7

12A8GT



BEAM POWER TUBE

12AB5

Miniature type used in the output stage of automobile radio receivers operating from a 12-volt storage battery. Outlines section, 6E; requires miniature 9-contact socket.

Heater-Voltage Range (ac/dc).....	10 to 15.9	volts
Heater Current (Approx.) at 12.6 volts	0.2	ampere
Peak Heater-Cathode Voltage	±90 max	volts
Direct Interelectrode Capacitances:		
Grid No.1 to Plate	0.7 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3	8	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3	8.5	pF

* For longest life, it is recommended that the heater be operated within the voltage range of 11 to 14 volts.

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Center Values)

Plate Voltage	315	volts
Grid-No.2 (Screen-Grid) Voltage	285	volts
Plate Dissipation	12	watts
Grid-No.2 Input	2	watts
Bulb Temperature (At hottest point)	250	°C
TYPICAL OPERATION WITH 12.6 VOLTS ON HEATER		
Plate Supply Voltage	250	volts
Grid-No.2 Supply Voltage	250	volts
Grid-No.1 (Control-Grid) Voltage	—12.5	volts
Cathode-Bias Resistor	270	ohms
Peak AF Grid-No.1 Voltage	10.5	volts