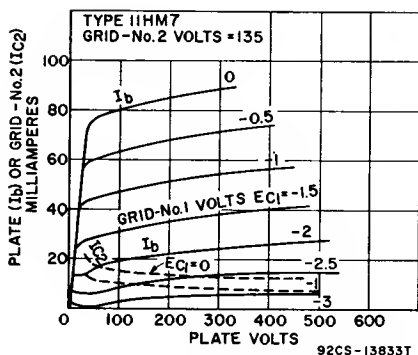




Refer to type 6JE8.

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

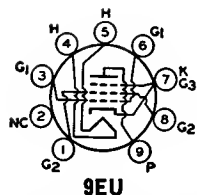
11Y9

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

Zero-Signal Plate Current	33.5	45	mA
Maximum-Signal Plate Current	36	47	mA
Zero-Signal Grid-No.2 Current	1.6	4.5	mA
Maximum-Signal Grid-No.2 Current	3.2	7	mA
Plate Resistance (Approx.)	75000	50000	ohms
Transconductance	4000	4100	μ mhos
Load Resistance	6000	5000	ohms
Total Harmonic Distortion	8	8	per cent
Maximum-Signal Power Output	3.3	4.5	watts

MAXIMUM CIRCUIT VALUES

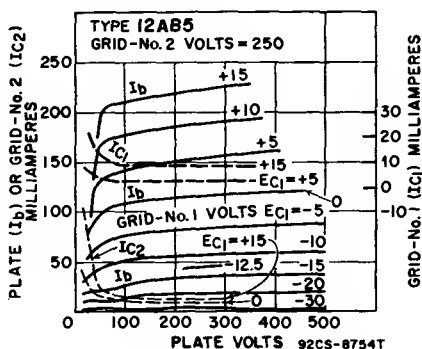
Grid-No.1-Circuit Resistance:			
For fixed-bias operation	0.1		megohm
For cathode-bias operation	0.5		megohm

Push-Pull Class AB₁ Amplifier**MAXIMUM RATINGS (Same as for Single-Tube Class A₁ Amplifier)****TYPICAL OPERATION WITH 12.6 VOLTS ON HEATER (Values are for two tubes)**

Plate Voltage	250	volts
Grid-No.2 Voltage	250	volts
Grid-No.1 Voltage	-15	volts
Peak AF Grid-No.1-to-Grid-No.1 Voltage	30	volts
Zero-Signal Plate Current	70	mA
Maximum-Signal Plate Current	79	mA
Zero-Signal Grid-No.2 Current	5	mA
Maximum-Signal Grid-No.2 Current	13	mA
Effective Load Resistance (Plate-to-Plate)	10000	ohms
Total Harmonic Distortion	5	per cent
Maximum-Signal Power Output	10	watts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:			
For fixed-bias operation	0.1		megohm
For cathode-bias operation	0.5		megohm

**12AC6**

Refer to chart at end of section.

12AD6

Refer to chart at end of section.

12AE6

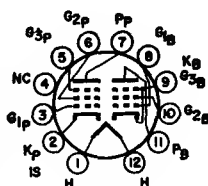
Refer to chart at end of section.

12AE6A**12AE7**

Refer to chart at end of section.

12AE10**BEAM POWER TUBE—
SHARP-CUTOFF PENTODE**

Duodecar type used as combined FM detector and audio-frequency output amplifier in television receivers. The beam power unit is used in af output stages and the pentode unit as an FM detector. Outlines section, 8C; requires duodecar 12-contact socket. Heater: volts (ac/dc), 12.6; amperes, 0.45; warm-up time (av-

**12EZ**