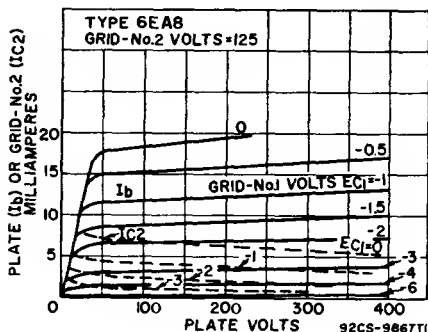
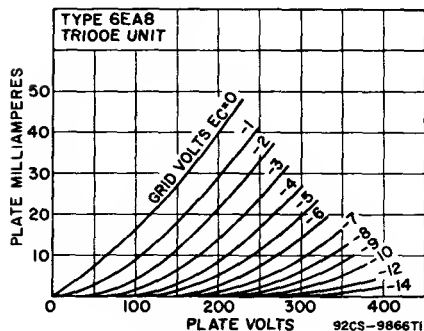


Cathode-Bias Resistor	
Amplification Factor	
Plate Resistance (Approx.)	
Transconductance	
Plate Current	
Grid-No.2 Current	
Grid-No.1 Voltage for plate current of 10 μ A	

Triode Unit	Pentode Unit	
56	—	ohms
40	—	
5000	200000	ohms
8500	6400	μ mhos
18	12	mA
—	4	mA
—12	—9	volts

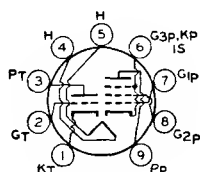


6EB8

8EB8

HIGH-MU TRIODE—SHARP-CUTOFF PENTODE

Miniature type used in color and black-and-white television receiver applications. Pentode unit is used as video output amplifier; triode unit is used in sync-separator, sync-clipper, and phase-inverter circuits. Outlines section, 6E; requires miniature 9-contact socket. Type 8EB8 is identical with type 6EB8 except for heater ratings.



Heater Voltage (ac/dc)	6.3	
Heater Current	0.75	
Heater Warm-up Time (Average)	—	
Heater-Cathode Voltage:		
Peak value	± 200 max	volts
Average value	100 max	volts

6EB8	8EB8	
6.3	8	volts
0.75	0.6	ampere
—	11	seconds
± 200 max	± 200 max	volts
100 max	100 max	volts

Direct Interelectrode Capacitances:

Triode Unit:

Grid to Plate

Grid to Cathode and Heater

Plate to Cathode and Heater

Pentode Unit:

Grid No.1 to Plate

Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and

Internal Shield

Plate to Cathode, Heater, Grid No.2, Grid No.3, and

Internal Shield

Triode Grid to Pentode Plate

Pentode Grid No.1 to Triode Plate

Pentode Plate to Triode Plate

4.4	pF
2.4	pF
0.36	pF
0.1 max	pF
11	pF
4.2	pF
0.018 max	pF
0.005 max	pF
0.17 max	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
Plate Dissipation	1
Grid-No.2 Input:	
For grid-No.2 voltages up to 165 volts	—
For grid-No.2 voltages between 165 and 330 volts	—

Triode Unit Pentode Unit

330	330	volts
—	330	volts
See curve	page 98	
0	0	volts
1	5	watts
—	1.1	watts
See curve	page 98	

CHARACTERISTICS

Plate Supply Voltage	250
Grid-No.2 Supply Voltage	—
Grid Voltage	—2

200	volts
125	volts
—	volts

Cathode-Bias Resistor	
Amplification Factor	100
Plate Resistance (Approx.)	37000
Transconductance	2700
Plate Current	2
Grid-No.2 Current	—
Grid Voltage (Approx.) for plate current of 20 μ A ..	—5
Grid-No.1 Voltage (Approx.) for plate current of 100 μ A	—

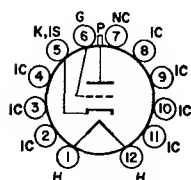
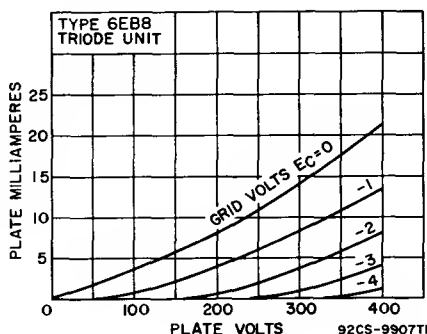
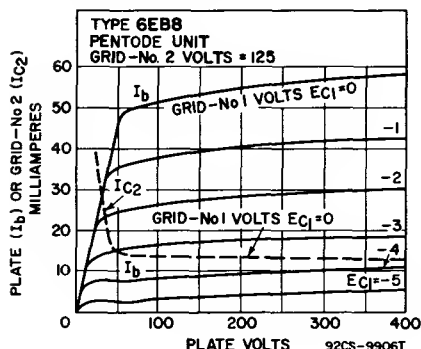
Triode Unit	Pentode Unit	
—	68	ohms
—	—	ohms
—	75000	μ hos
—	12500	mA
—	25	mA
—	7	volts
—	—	volts
—	—9	volts
0.5	0.25	megohm
1	1	megohm

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:

For fixed-bias operation

For cathode-bias operation



12FA

volts; + not recommended, -450.

BEAM TRIODE

6EH4

Duodec type used for the shunt regulation of low-current, high-voltage power supplies in color television receivers. Outlines section, 16E; requires duodec 12-contact socket. For high-voltage and X-ray safety considerations, refer to type 1G3GT/1B3GT. Heater: volts (ac/dc), 6.3; amperes, 0.2; maximum heater-cathode

Shunt Voltage-Regulator Service

MAXIMUM RATINGS (Design-Maximum Values)

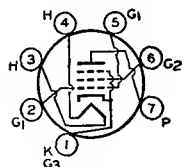
Plate Voltage	27000	volts
Unregulated Plate-Supply Voltage	60000	volts
DC Grid Voltage	—135	volts
Peak Grid Voltage#	—440	volts
Average DC Plate Current	1.6	mA
Plate Dissipation	30	watts

MAXIMUM CIRCUIT VALUE

Grid-Circuit Resistance:

For use with "Flyback Transformer" high-voltage supply 3 megohms

Peak value for duration of 20 seconds maximum during equipment warm-up.



7CV

POWER PENTODE

6EH5

25EH5, 50EH5

Miniature type used in the audio output stage of radio and television receivers and in phonographs. Outlines section, 5D; requires miniature 7-contact socket. Types 25EH5 and 50EH5 are identical with type 6EH5 except for heater ratings.