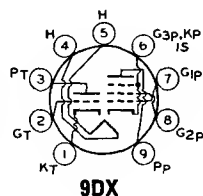


CHARACTERISTICS

Plate Supply Voltage	150	125	volts
Grid-No.2 Voltage	—	125	volts
Grid-No.1 Voltage	—	—1	volt
Cathode-Bias Resistor	56	—	ohms
Amplification Factor	40	—	
Plate Resistance (Approx.)	5000	200000	ohms
Transconductance	8500	6400	μ mhos
Plate Current	18	12	mA
Grid-No.2 Current	—	4	mA
Grid-No.1 Voltage for plate current of 10 μ A	—12	—9	volts

6EB8**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.



Heater Voltage (ac/dc)	6.3	volts
Heater Current	0.75	ampere
Heater-Cathode Voltage:		
Peak value	± 200 max	volts
Average value	100 max	volts
Direct Interelectrode Capacitances:		
Triode Unit:		
Grid to Plate	4.4	pF
Grid to Cathode and Heater	2.4	pF
Plate to Cathode and Heater	0.36	pF
Pentode Unit:		
Grid No.1 to Plate	0.1 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	11	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield	4.2	pF
Triode Grid to Pentode Plate	0.018 max	pF
Pentode Grid No.1 to Triode Plate	0.005 max	pF
Pentode Plate to Triode Plate	0.17 max	pF

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

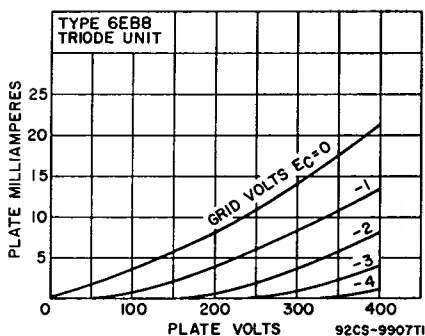
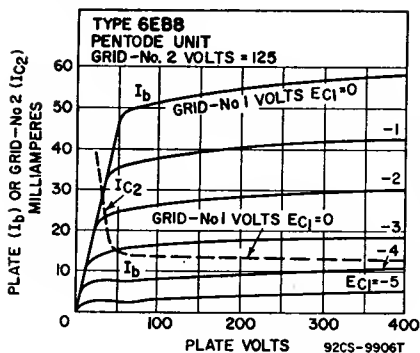
	Triode Unit	Pentode Unit	
Plate Voltage	330	330	volts
Grid-No.2 (Screen-Grid) Supply Voltage	—	330	volts
Grid-No.2 Voltage	—	See curve page 300	
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volts
Plate Dissipation	1	5	watts
Grid-No.2 Input:			
For grid-No.2 voltages up to 165 volts	—	1.1	watts
For grid-No.2 voltages between 165 and 330 volts	—	See curve page 300	

CHARACTERISTICS

Plate Supply Voltage	250	200	volts
Grid-No.2 Supply Voltage	—	125	volts
Grid Voltage	—2	—	volts
Cathode-Bias Resistor	—	68	ohms
Amplification Factor	100	—	
Plate Resistance (Approx.)	37000	75000	ohms
Transconductance	2700	12500	μ mhos
Plate Current	2	25	mA
Grid-No.2 Current	—	7	mA
Grid Voltage (Approx.) for plate current of 20 μ A	—5	—	volts
Grid-No.1 Voltage (Approx.) for plate current of 100 μ A	—	—9	volts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:			
For fixed-bias operation	0.5	0.25	megohm
For cathode-bias operation	1	1	megohm



Refer to chart at end of section.

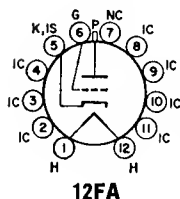
6EC4A/EY500

Refer to chart at end of section.

6EH4

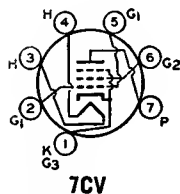
For replacement use type 6EH4A.

6EH4A



BEAM TRIODE

Duodecar type used as a shunt regulator in the high-voltage power supply of color television receivers. Outlines section, 16G; requires duodecar 12-contact socket. For high-voltage and X-ray safety considerations, refer to page 93. This type is electrically identical with type 6EJ4A.



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.

Heater Voltage (ac/dc)	6EH5	25EH5	50EH5	
Heater Current	6.3	25	50	volts
Heater-Cathode Voltage:	1.2	0.3	0.15	ampere
Peak value	±200 max	±200 max	±200 max	volts
Average value	100 max	100 max	100 max	volts
Direct Interelectrode Capacitances (Approx.):				
Grid No.1 to Plate			0.65	pF
Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.3			17	pF
Plate to Cathode, Heater, Grid No.2, and Grid No.3			9	pF

Class A₁ Amplifier

MAXIMUM RATINGS (Design-Maximum Values)

Plate Voltage	150	volts
Grid-No.2 (Screen-Grid) Voltage	130	volts
Plate Dissipation	5.5	watts
Grid-No.2 Input	2	watts
Bulb Temperature (At hottest point)	220	°C

TYPICAL OPERATION

Plate Supply Voltage	110	volts
Grid-No.2 Supply Voltage	115	volts
Cathode-Bias Resistor	62	ohms
Peak AF Grid-No.1 Voltage	3	volts