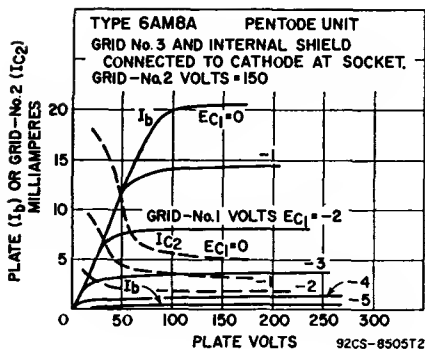


**6AN4**

Refer to chart at end of section.

6AN5

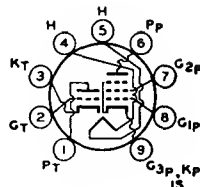
Refer to chart at end of section.

6AN8

Refer to chart at end of section.

6AN8A**5AN8****MEDIUM-MU TRIODE—
SHARP-CUTOFF PENTODE**

Miniature type used in color television receiver applications. The pentode unit is used as an intermediate-frequency amplifier, a video amplifier, an agc amplifier, or a reactance tube. The triode unit is used in low-frequency oscillator, sync-separator, sync-clipper, and phase-splitter circuits. Outlines section, 6B; requires miniature 9-contact socket. Type 5AN8 is identical with 6AN8A except for heater ratings.

**9DA**

	5AN8	6AN8A	
Heater Voltage (ac/dc)	4.7	6.3	volts
Heater Current	0.6	0.45	ampere
Heater Warm-up Time (Average)	11	11	seconds
Heater-Cathode Voltage:			
Peak value	±200 max	±200 max	volts
Average value	100 max	100 max	volts
Direct Interelectrode Capacitances:			
Triode Unit:			
Grid to Plate		1.5	pF
Grid to Cathode and Heater		2	pF
Plate to Cathode and Heater		0.26	pF
Pentode Unit:			
Grid No.1 to Plate		0.04 max	pF
Grid No.1 to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield		7	pF
Plate to Cathode, Heater, Grid No.2, Grid No.3, and Internal Shield		2.4	pF
Triode Grid to Pentode Plate		0.02	pF
Pentode Grid No.1 to Triode Plate		0.02	pF
Pentode Plate to Triode Plate		0.15	pF

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

	Triode Unit	Pentode Unit	
Plate Voltage	330	330	volts
Grid-No.2 Supply Voltage	—	330	volts
Grid-No.2 (Screen-Grid) Voltage	—	See curve page 300	
Grid-No.1 (Control-Grid) Voltage, Positive-bias value	0	0	volts
Plate Dissipation	2.8	2.3	watts

Grid-No.2 Input:

For grid-No.2 voltages up to 165 volts

For grid-No.2 voltages between 165 and 330 volts

— 0.55 watt
— See curve page 300

CHARACTERISTICS

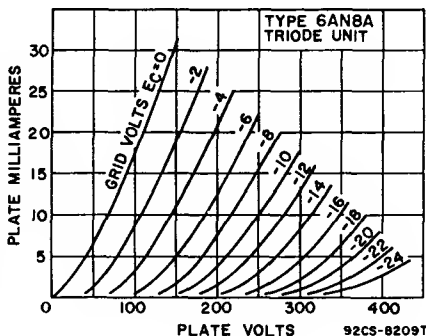
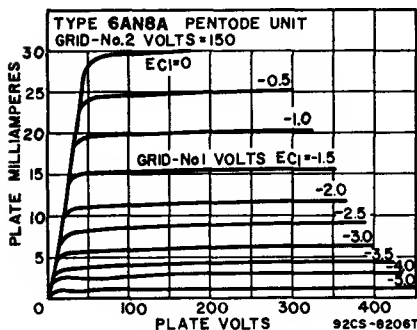
Plate Supply Voltage	150	125	volts
Grid-No.2 Supply Voltage	—	125	volts
Grid-No.1 Voltage	—3	—	volts
Cathode-Bias Resistor	—	56	ohms
Amplification Factor	21	—	
Plate Resistance (Approx.)	4700	170000	ohms
Transconductance	4500	7800	μ mhos
Plate Current	15	12	mA
Grid-No.2 Current	—	3.8	mA
Grid-No.1 Voltage (Approx.) for plate current of 20 μ A	—17	—6	volts
Grid-No.1 Voltage (Approx.) for plate current of 1.6 mA	—	—3	volts

MAXIMUM CIRCUIT VALUES

Grid-No.1-Circuit Resistance:*

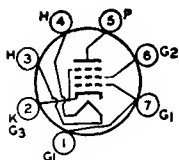
For fixed-bias operation	0.5	0.25	megohm
For cathode-bias operation	1	1	megohm

* If either unit is operating at maximum rated conditions, grid-No.1-circuit resistance for both units should not exceed the stated values.



Refer to chart at end of section.

6AQ5



7BZ

BEAM POWER TUBE

6AQ5A

5AQ5, 12AQ5

Miniature type used as output amplifier primarily in automobile receivers and in ac-operated receivers and, triode-connected, as a vertical-deflection amplifier in television receivers. Outlines section, 5D; requires miniature 7-contact socket. Within its maximum ratings, the performance of this type is equivalent to that of larger types 6V6 and 6V6GTA. Types 5AQ5 and 12AQ5 are identical with type 6AQ5A except for heater ratings.

Heater Voltage (ac/dc)	5AQ5 4.7	6AQ5A 6.3	12AQ5 12.6	volts
Heater Current	0.6	0.45	0.225	ampere
Heater Warm-up Time (Average)	11	11	—	seconds
Heater-Cathode Voltage:				
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			0.4	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