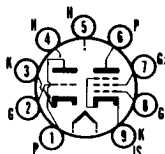


6AN8A**5AN8**

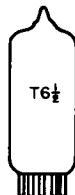
Color Television Type

**OSC./SYNC SEP./SYNC CLIPPER (T)
IF/VIDEO/AGC AMPLIFIER (P)****Medium Mu Triode and
Sharp Cutoff Pentode**

Construction Miniature T-6½
 Base Button 9 Pin, E9-1
 Basing 9DA
 Outline 6-2
 Maximum Diameter 0.875 In.
 Maximum Seated Height 1.938 In.
 Maximum Overall Height 2.188 In.



901

**ELECTRICAL DATA
HEATER OPERATION**

	5AN8 Series	6AN8A Series
Heater Voltage.....	4.7	6.3 Volts
Heater Current.....	600	450 Ma
Heater Warm-up Time.....	11	11 Seconds
Maximum Heater-Cathode Voltage		
Heater Negative With Respect to Cathode		
Total DC and Peak.....		200 Volts
Heater Positive With Respect to Cathode		
DC.....		100 Volts
Total DC and Peak.....		200 Volts

DIRECT INTERELECTRODE CAPACITANCES**Triode Section**

Grid to Plate.....	1.5 Pf
Input: g to (h + k).....	2.0 Pf
Output: p to (h + k).....	0.26 Pf

Pentode Section

Grid No. 1 to Plate (Max.).....	0.04 Pf
Input: g1 to (h + k + g2 + g3 + IS).....	7.0 Pf
Output: p to (h + k + g2 + g3 + IS).....	2.4 Pf

Coupling

Triode Grid to Pentode Plate (Max.).....	0.02 Pf
Pentode Grid No. 1 to Triode Plate (Max.).....	0.02 Pf
Pentode Plate to Triode Plate (Max.).....	0.15 Pf

RATINGS (Design Maximum Rating System)

	Triode Section	Pentode Section
Plate Voltage (Max.).....	330	330 Volts
Grid No. 2 Supply Voltage (Max.).....	—	330 Volts
Grid No. 2 Voltage.....	See Rating Chart (Gen. Info. Sec.)	
Grid No. 1 Voltage		
Positive Bias Value (Max.).....	0	0 Volt
Plate Dissipation (Max.).....	2.8	2.3 Watts
Grid No. 2 Input (Max.).....	—	0.55 Watt
Grid No. 1 Circuit Resistance ⁽¹⁾		
Fixed Bias (Max.).....	0.5	0.25 Megohm
Cathode Bias (Max.).....	1.0	1.0 Megohm

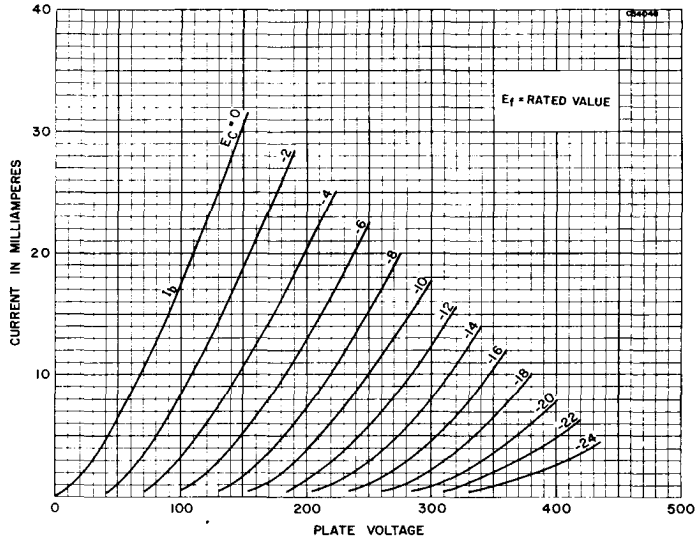
CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Plate Supply Voltage.....	150	125 Volts
Grid No. 2 Supply Voltage.....	—	125 Volts
Grid No. 1 Voltage.....	-3	— Volts
Cathode Bias Resistor.....	—	56 Ohms
Plate Current.....	15	12 Ma
Grid No. 2 Current.....	—	3.8 Ma
Transconductance.....	4500	7800 μ mhos
Amplification Factor.....	21	—
Plate Resistance (Approx.).....	4700	170,000 Ohms
E _{c1} for I _b = 20 μ a (Approx.).....	-17	-6 Volts
I _b with E _{c1} = -3 Volts, R _k = 0.....	—	1.6 Ma

NOTE:

(1) If either section is operating at maximum rated conditions, the Grid No. 1 circuit resistance for both sections should not exceed the stated values.

AVERAGE PLATE CHARACTERISTICS
(Triode Section)



Color Television Type

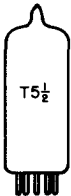
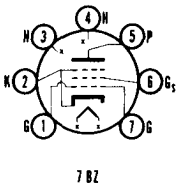
**AUDIO POWER AMPLIFIER
or VERTICAL DEFLECTION AMP.**

6AQ5A

5AQ5, 12AQ5, 19AQ5

Beam Power Pentode

- Construction Miniature T-5½
- Base Button 7 Pin, E7-1
- Basing 7BZ
- Outline 5-3
- Maximum Diameter 0.750 In.
- Maximum Seated Height 2.375 In.
- Maximum Overall Height 2.625 In.



ELECTRICAL DATA
HEATER OPERATION

	19AQ5	12AQ5	5AQ5	6AQ5A
Heater Voltage.....	18.9	12.6	4.7	6.3 Volts
Heater Current	150	225	600	450 Ma
Heater Warm-up Time	—	—	11	11 Seconds
Maximum Heater-Cathode Voltage				
Heater Negative with Respect to Cathode				200 Volts
Total DC and Peak.....				
Heater Positive with Respect to Cathode				
DC				100 Volts
Total DC and Peak.....				200 Volts

DIRECT INTERELECTRODE CAPACITANCES

Grid to Plate	0.4 Pf
Input: g1 to (h + k + g2 + g3)	8.0 Pf
Output: p to (h + k + g2 + g3)	8.5 Pf

RATINGS (Design Maximum Rating System)

Class A1 Amplifier

Plate Voltage (Max.)	275 Volts
Grid No. 2 Voltage (Max.)	275 Volts
Plate Dissipation (Max.)	12 Watts
Grid No. 2 Dissipation (Max.)	2 Watts
Grid No. 1 Circuit Resistance	
Fixed Bias (Max.)	0.1 Megohm
Cathode Bias (Max.)	0.5 Megohm
Bulb Temperature (At Any Point) (Max.)	250 °C