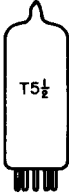
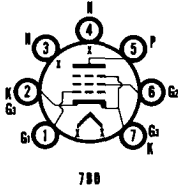


VIDEO AMPLIFIER

6AN5

Beam Pentode

Construction Miniature T-5½
Base Button 7 Pin, E7-1
Basing 7BD
Outline 5-2
Maximum Diameter 0.750 In.
Maximum Seated Height 1.875 In.
Maximum Overall Height 2.125 In.



ELECTRICAL DATA

HEATER OPERATION

Heater Voltage 6.3 Volts
Heater Current 450 Ma
Maximum Heater-Cathode Voltage 90 Volts

DIRECT INTERELECTRODE CAPACITANCES

Grid No. 1 to Plate 0.075 Pf
Input 9.0 Pf
Output 4.8 Pf

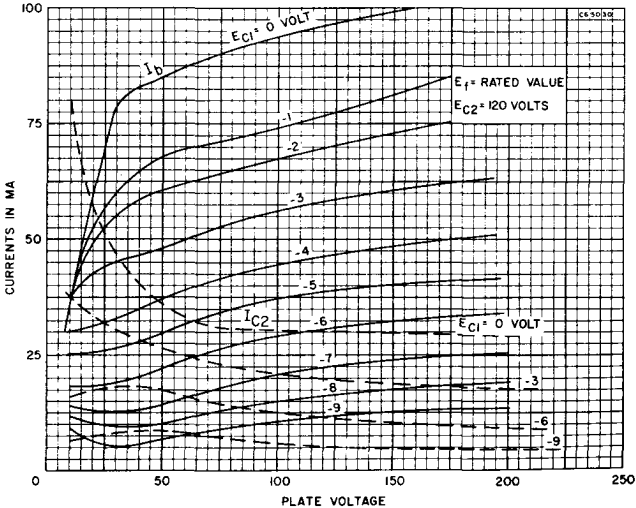
RATINGS (Design Center Rating System)

Plate Voltage (Max.) 120 300 Volts
Grid No. 2 Voltage (Max.) 120 300 Volts
Cathode Current (Max.) 50 20 Ma
Plate Dissipation (Max.) 4.2 1.7 Watts
Grid No. 2 Dissipation (Max.) 1.4 0.56 Watts
Grid No. 1 Circuit Resistance
Fixed Bias (Max.) 0.1 0.1 Megohm
Cathode Bias (Max.) 0.1 0.1 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage 120 Volts
Grid No. 2 Voltage 120 Volts
Cathode Resistor 120 Ohms
Plate Current 35 Ma
Grid No. 2 Current 12 Ma
Plate Resistance 12,500 Ohms
Transconductance 8000 μ mhos
Load Resistance 2500 Ohms
Power Output (Approx.) 1.3 Watts
Plate Current for $I_b = 1$ Ma -20 Volts

AVERAGE PLATE CHARACTERISTICS

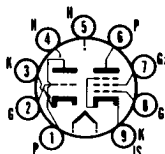


6AN8A**5AN8**

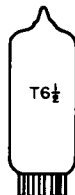
Color Television Type

**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.



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**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: gto (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.