

Color Television Type

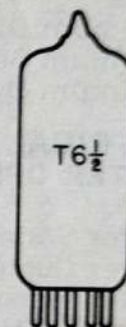
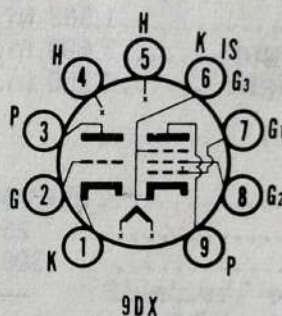
SYNC SEPARATOR (T) VIDEO AMPLIFIER (P)

6AU8A

8AU8A

Medium Mu Triode and Sharp Cutoff Pentode

Construction Miniature T-6½
Base Button 9 Pin, E9-1
Basing 9DX
Outline 6-3
Maximum Diameter 0.875 In.
Maximum Seated Height 2.375 In.
Maximum Overall Height 2.625 In.



ELECTRICAL DATA HEATER OPERATION

	6AU8A	8AU8A
Heater Voltage.....	6.3	8.4 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	200 Volts
Heater Positive with Respect to Cathode		
DC	100	100 Volts
Total DC and Peak.....	200	200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Triode Section		
Grid to Plate		2.2 Pf
Input		2.6 Pf
Output		0.34 Pf
Pentode Section		
Grid to Plate		0.06 Pf
Input		7.5 Pf
Output		3.4 Pf
Coupling		
Pentode Grid No. 1 to Triode Plate (Max.)		0.006 Pf
Triode Grid to Pentode Plate (Max.)		0.022 Pf
Pentode Plate to Triode Plate (Max.)		0.12 Pf

RATINGS (Design Center Rating System)

	Triode Section	Pentode Section
Plate Voltage (Max.)	330	330 Volts
Grid No. 2 Supply Voltage (Max.)	—	330 Volts
Grid No. 2 Voltage (Max.)	See Rating Chart (Gen. Info. Sec.)	
Plate Dissipation (Max.)	2.8	3.3 Watts
Grid No. 2 Dissipation (Max.)	—	1.0 Watt
Positive Grid No. 1 Voltage (Max.)	0	0 Volt
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.)	0.5	0.25 Megohm
Self Bias (Max.)	1.0	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION**Class A1 Amplifier**

	Triode Section	Pentode Section
Plate Voltage	150	200 Volts
Grid No. 2 Voltage	—	125 Volts
Cathode Bias Resistor	150	82 Ohms
Plate Current	9.5	17 Ma
Grid No. 2 Current	—	3.4 Ma
Transconductance	5300	8000 μ mhos
Amplification Factor	43	—
Plate Resistance (Approx.)	8100	100,000 Ohms
Grid No. 1 Voltage (Approx.) for $I_b = 100$ ma	-6.5	-7.5 Volts dc