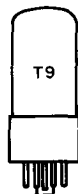
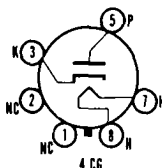


6AU4GTA**19AU4GTA**

Color Television Type

DAMPER**Heater-Cathode Diode**

Construction Octal T-9
 Base⁽¹⁾ Octal 5 or 6 Pin, B5-85 or B6-60
 Basing⁽¹⁾ 4CG
 Outline 9-44
 Maximum Diameter 1.188 In.
 Maximum Seated Height 3.250 In.
 Maximum Overall Height 3.813 In.

**ELECTRICAL DATA
HEATER OPERATION**

	19AU4GTA	6AU4GTA
Heater Voltage.....	18.9	6.3 Volts
Heater Current.....	600	1800 Ma
Heater Warm-up Time.....	11	— Seconds
Maximum Heater-Cathode Voltage		
Heater Negative with Respect to Cathode		
DC.....		900 Volts
Total DC and Peak.....		4500 Volts
Heater Positive with Respect to Cathode		
DC.....		100 Volts
Total DC and Peak.....		300 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Heater to Cathode.....	4.0 Pf
Plate to Cathode and Heater.....	8.5 Pf
Cathode to Plate and Heater.....	11.5 Pf

RATINGS (Design Maximum Rating System)**Damper Diode⁽²⁾**

Peak Inverse Plate Voltage (Abs. Max.).....	4500 Volts
DC Plate Current (Max.).....	190 Ma
Steady State Peak Plate Current (Max.).....	1150 Ma
Plate Dissipation (Max.).....	6.0 Watts

CHARACTERISTICS AND TYPICAL OPERATION**Damper Service—90° Deflection Scan System**

Peak Inverse Plate Voltage.....	3.65 Kv
Peak Heater-Cathode Voltage.....	3.9 Kv
Average Cathode Current.....	120 Ma
Peak Cathode Current.....	500 Ma
Boosted B+ Voltage.....	640 Volts
Plate Dissipation.....	2.8 Watts
Average Tube Voltage Drop for Ib = 350 Ma.....	25 Volts

NOTES:

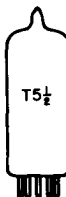
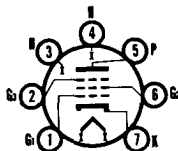
- (1) May be either 5 or 6 pin. Socket terminals No. 1 (if used), 2, 4, and 6 shall not be used as tie points. Pin No. 1 may be omitted on 5 pin base.
- (2) For operation in a 525-line, 30-frame system, the duty cycle of the horizontal voltage pulse must not exceed 15% of one horizontal scanning cycle. Power rectification service is not recommended.

6AU6A**3AU6, 4AU6, 12AU6**

Color Television Type

RF AMPLIFIER**Sharp Cutoff Pentode**

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



7BK

**ELECTRICAL DATA
HEATER OPERATION**

	3AU6	4AU6	12AU6	6AU6A
Heater Voltage.....	3.15	4.2	12.6	6.3 Volts
Heater Current	600	450	150	300 Ma
Heater Warm-up Time	11	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 (Unshielded)

Grid to Plate (Max.).....	0.0035 Pf
Input	5.5 Pf
Output	5.0 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.).....	330 Volts
Grid No. 2 Supply Voltage (Max.)	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Plate Dissipation (Max.)	3.5 Watts
Grid No. 2 Dissipation (Max.)	0.75 Wtats
Positive Grid No. 1 Voltage (Max.)	0 Volt

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	100	250	250 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket		
Grid No. 2 Voltage	100	125	150 Volts
Cathode Bias Resistor	150	100	68 Ohms
Plate Current	5.0	7.6	10.6 Ma
Grid No. 2 Current	2.1	3.0	4.3 Ma
Transconductance	3900	4500	5200 μ mhos
Plate Resistance (Approx.)	0.5	1.5	1.0 Megohm
Grid No. 1 Voltage for $I_b = 10 \mu a$	-4.2	-5.5	-6.5 Volts

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**

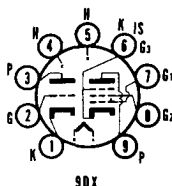
Grid to Plate	2.2 Pf
Input	2.6 Pf
Output	0.34 Pf

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



9DX

