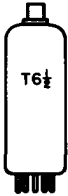
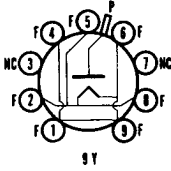


Color Television Type
HIGH VOLTAGE RECTIFIER

1X2B

Filamentary Diode

Construction Miniature T-6½
Base Button 9 Pin, E9-1
Top Cap Skirted Miniature C1-2 or C1-33
Basing⁽¹⁾ 9Y
Outline
Maximum Diameter 0.875 In.
Maximum Seated Height 2.563 In.
Maximum Overall Height 2.844 In.



ELECTRICAL DATA

FILAMENT OPERATION

Filament Voltage 1.25 Volts
Filament Current 200 Ma

DIRECT INTERELECTRODE CAPACITANCES

Plate to Filament and Internal Shield 1.0 Pf

RATINGS (Design Maximum Rating System)

Pulse Rectifier Service⁽²⁾

Peak Inverse Plate Voltage
Total DC and Peak (Max.) 22,000 Volts
DC (Max.) 18,000 Volts
Peak Plate Current (Max.) 45 Ma
Average Plate Current (Max.) 0.5 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Positive Peak Plate Voltage 18,000 Volts
Negative Peak Plate Voltage 2000 Volts
DC Output Voltage (Approx.) 18,000 Volts
DC Output Current (Approx.) 100 µa
Peak Plate Current 35 Ma
Tube Voltage Drop With Ib = 7 Ma (Approx.) 100 Volts

NOTES:

- (1) Pins 3 and 7 can be used as a tie point for the filament dropping resistor and high voltage resistor. Do not connect to the low voltage circuits.
- (2) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.

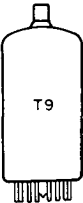
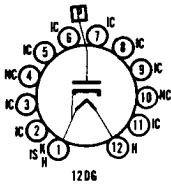
X-RADIATION WARNING: The high voltages associated with this tube type result in the production of X-radiation which may constitute a health hazard on prolonged exposure at close range unless the tube is adequately shielded. Precautions must be exercised during the servicing of equipment to assure that all shielding components are replaced to their intended positions before the equipment is operated.

HIGH VOLTAGE RECTIFIER

2AH2

Heater-Cathode Diode

Construction Compactron T-9
Base Button 12 Pin, E12-70
Top Cap Small, C1-34
Basing^(1,2) 12DG
Outline
Maximum Diameter 1.188 In.
Maximum Seated Height 3.000 In.
Maximum Overall Height 3.375 In.



ELECTRICAL DATA

HEATER OPERATION

Heater Voltage⁽³⁾ 2.5 Volts
Heater Current 300 Ma

DIRECT INTERELECTRODE CAPACITANCES

Plate to Heater, Cathode, and Internal Shield (Approx.).....	1.4 Pf
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RATINGS (Design Maximum Rating System)**Pulse Rectifier Service⁽⁴⁾**

Peak Inverse Plate Voltage	
Total DC and Peak (Max.)	30,000 Volts
DC (Max.).....	24,000 Volts
Peak Plate Current (Max.)	80 Ma
Average Plate Current (Max.).....	1.5 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for $I_b = 7$ Ma	100 Volts
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NOTES:

- (1) Pins designated Internal Connection (IC) may or may not have connections to internal elements depending on manufacturer. To maintain interchangeability do not use these pins for external connections.
- (2) Pins 4 and 10 may be used as tie points for components at or near filament potential.
- (3) Under no circumstances should voltage fall below 2.1 volts or exceed 2.9 volts.
- (4) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.

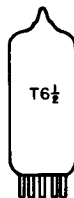
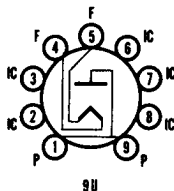
X-RADIATION WARNING: The high voltages associated with this tube type result in the production of X-radiation which may constitute a health hazard on prolonged exposure at close range unless the tube is adequately shielded. Precautions must be exercised during the servicing of equipment to assure that all shielding components are replaced to their intended positions before the equipment is operated.

2AV2

Color Television Type

HIGH VOLTAGE RECTIFIER**Filamentary Diode**

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

**ELECTRICAL DATA****FILAMENT OPERATION**

Filament Voltage ⁽²⁾	1.8 Volts
Filament Current	225 Ma

DIRECT INTERELECTRODE CAPACITANCES

Plate to Filament	0.8 Pf
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RATINGS (Design Maximum Rating System)**Pulse Rectifier Service⁽³⁾**

Peak Inverse Plate Voltage	
Total DC and Peak (Max.)	8250 Volts
DC (Max.).....	7000 Volts
Peak Plate Current (Max.)	50 Ma
Average Plate Current (Max.).....	0.6 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for $I_b = 1$ Ma	20 Volts
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NOTES:

- (1) Socket terminals 2, 3, 7, and 8 shall not be used. Terminal 6 may be used as a tie point for components at or near filament potential.
- (2) Under no circumstances should the filament voltage be less than 1.53 volts or more than 2.07 volts.
- (3) For operation in a 525-line, 30-frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.