

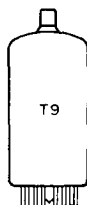
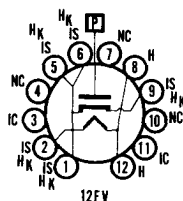
3BN2A

Color Television Type

HIGH VOLTAGE RECTIFIER

Heater-Cathode Diode

Construction.....Compactron T-9
 Base Button 12 Pin, E12-70
 Top Cap Small, C1-34
 Basing.....12FV
 Outline 9-100
 Maximum Diameter 1.188 In.
 Maximum Seated Height 3.250 In.
 Maximum Overall Height 3.625 In.

**ELECTRICAL DATA****HEATER OPERATION**

Heater Voltage⁽¹⁾.....3.15 Volts
 Heater Current 300 Ma
 Operational Warm-up Time 4 Sec.

DIRECT INTERELECTRODE CAPACITANCES

Plate to Heater, Cathode, and Internal Shield 1.5 Pf

RATINGS (Design Maximum Rating System)**Pulse Rectifier Service⁽²⁾**

Peak Inverse Plate Voltage
 Total DC and Peak (Max.) 30,000 Volts
 DC (Max.) 27,000 Volts
 Peak Plate Current (Max.) 88 Ma
 Average Plate Current (Max.) 1.7 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for $I_b = 7$ Ma 150 Volts

X-RADIATION CHARACTERISTIC

Maximum X-Radiation 25.0 mR/h
 X-Radiation is measured in accordance with JEDEC Publication No. 67, "Recommended Practice for Measurement of X-Radiation from Receiving Tubes," dated February 1968 and quality controlled in accordance with JEDEC Publication No. 73, "Recommended Practice for Quality Control of X-Radiation Emitted from High Voltage Rectifier and Shunt Regulator Receiving Tubes."

Lot acceptance sampling procedures for the manufacturer's initial and life tests for X-Radiation are based on MIL-STD-105, "Military Standard Sampling Procedures and Tables for Inspection by Attributes." Lot acceptance and life control limits are established substantially below the X-Radiation Characteristic Maximum.

NOTES:

- (1) Under no circumstance should voltage fall below 2.65 or exceed 3.65 volts.
- (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.

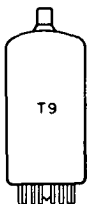
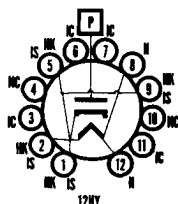
3BS2A

Color Television Type

HIGH VOLTAGE RECTIFIER

Heater-Cathode Diode

Construction.....Compactron T-9
 Base E12-70
 Top Cap Small C1-34
 Basing⁽²⁾.....12HY
 Outline 9-100
 Maximum Diameter 1.188 In.
 Maximum Seated Height 3.250 In.
 Maximum Overall Height 3.625 In.



ELECTRICAL DATA
HEATER OPERATION

Heater Voltage.....	3.15 Volts
Heater Current	480 Ma
Heater Warm-up Time	4 Seconds

DIRECT INTERELECTRODE CAPACITANCES

Plate to Heater, Cathode and Internal Shield	Without Shield
	1.6 pf

RATINGS (Design Maximum Rating System)**Pulse Rectifier Service⁽¹⁾****Peak Inverse Plate Voltage**

Total DC and Peak (Absolute Max.).....	38,000 Volts
DC Component (Absolute Max.)	30,000 Volts
Steady State Peak Plate Current (Design Max.).....	110 Ma
Average Plate Current (DC Output) (Design Max.)	2.2 Ma

AVERAGE CHARACTERISTICS

Instantaneous Tube Drop (Approx.) for $I_b = 7.0$ Ma	60 Volts
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NOTES:

- (1) For operation as a pulsed rectifier 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.
- (2) Pins 4, 7, and 10 may be used as tie points for components at or near heater potential.

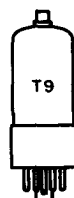
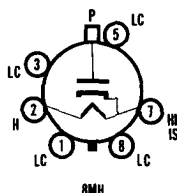
X-RADIATION WARNING: The high voltages associated with this tube type result in the production of X-radiation which may constitute a health hazard on prolonged exposure at close range unless the tube is adequately shielded. Precautions must be exercised during the servicing of equipment to assure that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

Color Television Type

HIGH VOLTAGE RECTIFIER**3CA3****Heater-Cathode Diode**

Construction Octal T-9
 Base.....Octal 6 Pin, B6-8 or B6-60
 Top Cap Small, C1-34
 Basing⁽¹⁾ 8MH
 Outline

Maximum Diameter	1.188 In.
Maximum Seated Height	3.500 In.
Maximum Overall Height	4.063 In.

**ELECTRICAL DATA****HEATER OPERATION**

Heater Voltage ⁽²⁾	3.6 Volts
Heater Current	225 Ma

DIRECT INTERELECTRODE CAPACITANCES

Plate Heater, Cathode, and Internal Shield	1.6 Pf
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RATINGS (Design Maximum Rating System)**Pulse Rectifier Service⁽³⁾**

Peak Inverse Plate Voltage (Max.)	30,000 Volts
Peak Plate Current (Max.)	100 Ma
Average Plate Current (Max.)	2 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for $I_b = 11$ Ma	100 Volts
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NOTES:

- (1) Socket Pins No. 1, 3, 4, 5, 6, and 8 may be connected to Pin No. 7 or a corona shield which connects to Pin 7. Pins 4 and 6 may be used as tie points at or near cathode potential, otherwise do not use.
- (2) Under no circumstances should voltage fall below 3.02 or exceed 4.18 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.

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.