

3CN3A

2CN3B

Color Television Type

HIGH VOLTAGE RECTIFIER

Heater-Cathode Diode

Construction Octal T-9
 Base Octal 8 Pin, B8-6, B8-42, B8-58
 or B8-251
 Top Cap.....Small, C1-1 or C1-34
 Basing⁽¹⁾ 8MU
 Outline

Maximum Diameter 1.281 In.
 Maximum Seated Height 3.250 In.
 Maximum Overall Height 3.812 In.

ELECTRICAL DATA

HEATER OPERATION

Heater Voltage ⁽²⁾	2CN3B	3CN3A
Heater Current	1.8	3.15 Volts
	900	480 Ma

DIRECT INTERELECTRODE CAPACITANCES

Plate to 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	
Total DC and Peak (Abs. Max.)	38,000 Volts
DC (Abs. Max.)	30,000 Volts
Peak Plate Current (Design Max.)	110 Ma
Average Plate Current (Design Max.)	2.2 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for Ib = 7 Ma	60 Volts
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2CN3B Only

X-RADIATION CHARACTERISTIC

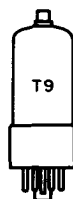
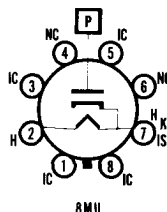
Maximum X-Radiation 25.0 mR/h
 X-Radiation is measured in accordance with JEDEC Publication No. 67, "Recommended Practice for Measurement of X-Radiation from Receiving Tubes," dated February 1968 and quality controlled in accordance with JEDEC Publication No. 73, "Recommended Practice for Quality Control 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) Socket Pins No. 1, 3, 5, and 8 may be connected to Pin No. 7 or a corona shield which connects to Pin No. 7, otherwise do not use.
- (2) Under no circumstances should voltage fall below 2.65 or exceed 3.65 volts (3CN3A only).
- (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.



3CU3A

Color Television Type

HIGH VOLTAGE RECTIFIER

Filamentary Diode

Construction Octal T-9
 Base....B6-8, B6-48, B6-60, B8-251 or B6-253
 Top Cap.....C1-34 or C1-50
 Basing^{(1),(2),(3)} 8MK
 Outline

Maximum Diameter 1.281 In.
 Maximum Seated Height 3.250 In.
 Maximum Overall Height 3.812 In.

