

DIRECT INTERELECTRODE CAPACITANCES

Plate to Heater, Cathode, and Internal Shield..... 1.6 Pf

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

Peak Inverse Plate Voltage

Total DC and Peak (Max.) 38,000 Volts

DC (Max.)..... 30,000 Volts

Peak Plate Current (Max.) 110 Ma

Average Plate Current (Max.)..... 2.2 Ma

CHARACTERISTICS AND TYPICAL OPERATIONTube Voltage Drop for $I_b = 7$ Ma 60 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 volts 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.

3BL2A

Color Television Type

**HIGH VOLTAGE RECTIFIER
POSTED FILAMENT DESIGN****Filamentary Diode**

Construction..... Compactron T-9

Base Button 12 Pin, E12-70

Top Cap Small, C1-34

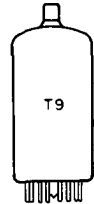
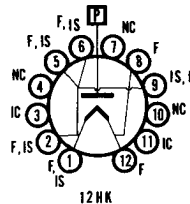
Basing^(1,2,3,4) 12HK

Outline 9-100

Maximum Diameter 1.188 In.

Maximum Seated Height 3.250 In.

Maximum Overall Height 3.625 In.

**ELECTRICAL DATA****FILAMENT OPERATION**Filament Voltage⁽³⁾..... 3.3 Volts

Filament Current 285 Ma

DIRECT INTERELECTRODE CAPACITANCES

Plate to Filament and Internal Shield..... 1.5 Pf

RATINGS (Design Maximum Rating System)**Pulse Rectifier Service⁽⁴⁾**

Peak Inverse Plate Voltage (Max.) 33,000 Volts

Peak Plate Current (Max.) 100 Ma

Average Plate Current (Max.)..... 2.0 Ma

CHARACTERISTICS AND TYPICAL OPERATIONTube Voltage Drop for $I_b = 7$ Ma 50 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) Pins designated Internal Connection (IC) may or may not have connections to internal elements depending on the manufacturer. To maintain interchangeability do not use these pins for external connection.
- (2) Use Pin No. 4 as tie point for series resistor in 2nd anode lead for the picture tube.
- (3) Use Pin No. 10 as tie point for series filament resistor.
- (4) Either Pins 1, 2, 5, 6, or 9—use as high voltage output connection.
- (5) Under no circumstance should voltage fall below 3.02 or exceed 4.18 volts.
- (6) 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.

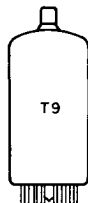
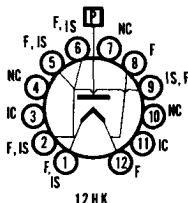
X-RADIATION WARNING: The high voltages associated with this tube type result in the production of X-radiation which may constitute a health hazard on prolonged exposure at close range unless the tube is adequately shielded. Precautions must be exercised during the servicing of equipment to assure that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

Color Television Type

HIGH VOLTAGE RECTIFIER POSTED FILAMENT DESIGN

3BM2A**Filamentary Diode**

Construction.....Compactron T-9
Base Button 12-Pin, E12-70
Top Cap Small, C1-34
Basing^(1,2,3,4).....12HK
Outline 9-100
Maximum Diameter 1.188 In.
Maximum Seated Height 3.250 In.
Maximum Overall Height 3.625 In.

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

Filament Voltage⁽⁵⁾.....3.0 Volts
Filament Current 300 Ma

DIRECT INTERELECTRODE CAPACITANCES

Plate to Filament and Internal Shield.....1.5 Pf

RATINGS (Design Maximum Rating System)

Pulse Rectifier Service⁽⁶⁾
Peak Inverse Plate Voltage (Max.) 33,000 Volts
Peak Plate Current (Max.) 100 Ma
Average Plate Current (Max.) 2.0 Ma

CHARACTERISTICS AND TYPICAL OPERATION

Tube Voltage Drop for Ib = 7 Ma 50 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) Pins designated Internal Connection (IC) may or may not have connections to internal elements depending on the manufacturer. To maintain interchangeability do not use these pins for external connection.
- (2) Use Pin No. 4 as tie point for series resistor in 2nd anode lead for the picture tube.
- (3) Use Pin No. 10 as tie point for series filament resistor.
- (4) Either Pins 1, 2, 5, 6, or 9—use as high voltage output connection.
- (5) Under no circumstance should voltage fall below 2.5 or exceed 3.5 volts.
- (6) 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.