RECTIFIER—BEAM POWER AMPLIFIER

Heater  Coated Unipotential Cathodes
Voltage  117  a-c or d-c volts
Current  0.090  amp.
Maximum Overall Length  3-7/16"
Maximum Seated Height  2-7/8"
Maximum Diameter  1-5/16"
Bulb  T-9
Base  Intermediate Shell Octal 8-Pin

Pin 1—No Connection  Pin 6—Amplifier Cathode
Pin 2—Heater  Pin 7—Rectifier Plate, Heater
Pin 3—Amplifier Plate  Pin 4—Amplifier Grid  Pin 8—Rectifier Cathode
Pin 5—Amplifier Screen  Mounting Position  Any

BOTTOM VIEW (8AV)

RECTIFIER UNIT (Half-Wave)

Peak Inverse Voltage  350 max. volts
Peak Plate Current  450 max. ma.
D-C Heater to Cathode Potential  175 max. volts

With Condenser-Input Filter:
A-C Plate Voltage (RMS)  117 max. volts
Total Effective Plate-Supply Impedance  15 min. ohms
D-C Output Current  75 max. ma.

AMPLIFIER UNIT

Plate Voltage  117 max. volts
Screen Voltage  117 max. volts
Plate Dissipation  5.0 max. watts
Screen Dissipation  1.0 max. watt

Typical Operation and Characteristics—Class A₂ Amplifier:
Plate Voltage  105 volts
Screen Voltage  105 volts
Grid Voltage#  -5.2 volts
Peak A-F Grid Voltage  5.2 volts
Zero-Sig. Plate Current  43 ma.
Max.-Sig. Plate Current  43 ma.
Zero-Sig. Screen Current  4 ma.
Max.-Sig. Screen Current  5.5 ma.
Plate Resistance  17000 approx. ohms
Transconductance  5300 \(\mu\)hos
Load Resistance  4000 ohms
Total Harmonic Distortion  5.0 %
Max.-Sig. Power Output  0.85 watt

# The type of input coupling used should not introduce too much resistance in the grid circuit. With fixed bias, the resistance should not exceed 0.25 megohm; with cathode bias, 0.5 megohm.

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

TENTATIVE DATA