RECTIFIER—BEAM POWER AMPLIFIER

Heater—Coated Unipotential Cathodes
Voltage 117 a-c or d-c volts
Current 0.09 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—Rectifier Cathode
Pin 2—Heater
Pin 3—Amplifier Plate
Pin 4—Amplifier Grid
Pin 5—Amplifier Screen
Pin 6—Rectifier Plate
Pin 7—Heater
Pin 8—Amplifier Cathode
Mounting Position Any

BOTTOM VIEW (8AO)

PEAK INVERSE VOLTAGE 350 max. volts
PEAK PLATE CURRENT 450 max. volts
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 6.0 max. watts
SCREEN DISSIPATION 1.0 max. watt

TYPICAL OPERATION AND CHARACTERISTICS—CLASS A, AMPLIFIER:
PLATE 105 volts
SCREEN 105 volts
GRID -5.2 volts
PEAK A-F GRID VOLTAJE 5.2 volts
ZERO-SIG. PLATE CUR. 43 ma.
MAX.-SIG. PLATE CUR. 43 ma.
ZERO-SIG. SCREEN CUR. 4 ma.
MAX.-SIG. SCREEN CUR. 5.5 ma.
PLATE RESISTANCE 17000 approx. ohms
TRANSDUCTANCE 5300 μmhos
LOAD RESISTANCE 4000 ohms
TOTAL HARMONIC DISTORTION 5 %
MAX.-SIG. POWER OUTPUT 0.85 watt

It is recommended that the potential difference between heater and cathode of the amplifier unit be kept as low as possible by connecting pin #2 to the side of the line opposite to which pins #6 & #7 are connected.

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RCA RADIotron Division
RCA Manufacturing Company, Inc.
Tentative Data