POWER AMPLIFIER PENTODE

Filament Coated
Voltage 2.0 d-c volts
Current 0.12 amp.
Maximum Overall Length 4-5/8"
Maximum Diameter 1-13/16"
Bulb ST-14
Base Medium Shell Octal 7-Pin
Pin 1-No Connection
Pin 2-Filament +
Pin 3-Plate
Pin 4-Screen
Mounting Position BOTTOM VIEW (G-6X) Vertical, Base Down

AMPLIFIER - Class A₁

Plate Voltage 135 max. volts
Screen Voltage 135 max. volts
Plate Dissipation 1.25 max. watts
Screen Dissipation 0.6 max. watt
Typical Operation:
Filament Voltage 2.0 d-c volts
Plate Voltage 90 124 135 volts
Screen Voltage 90 124 135 volts
Grid Voltage -6 -11 -13.5 volts
Peak A-F Grid Volt. 6 9.9 9.2 volts
Zero-Sig. Plate Cur. 8.5 10 8.7 ma.
Max.-Sig. Plate Cur. 8.7 10.7 9.7 ma.
Zero-Sig. Screen Cur. 2.5 3 2.5 ma.
Max.-Sig. Screen Cur. 3 4.3 3.6 ma.
Plate Res. (approx.) 0.133 0.145 0.160 megohm
Transconductance 1500 1500 1550 μmhos
Load Resistance 8500 8000 9000 ohms
Tot. Harmonic Dist. 6 10.5 11 %
Second Harmonic Dist. 3 7 8 %
Third Harmonic Dist. 5 7.5 7 %
Max.-Sig. Power Output 0.25 0.6* 0.55** watt

* The d-c resistance in the grid circuit should be limited to 1.0 megohm with cathode bias, or 0.5 megohm with fixed bias.
** With peak a-f grid voltage of 11 volts, a power output of 0.65 watt can be obtained with 13% total distortion (6% 2nd, 11% 3rd).
*** With peak a-f grid voltage of 13.5 volts, a power output of 0.75 watt can be obtained with 18% total distortion (9% 2nd, 15% 3rd).
◊ Horizontal operation permitted if pins 2 and 7 are in vertical plane.

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RCA RADIotron DIVISION
RCA MANUFACTURING COMPANY INC.
AVERAGE PLATE CHARACTERISTICS

$E_f = 2.0$ VOLTS D.C.  SCREEN VOLTS $= 135$

PLATE ($I_b$) OR SCREEN ($I_{c2}$) MILLIAMPERES