POWER AMPLIFIER PENTODE

Filament
Coated
Voltage 2.0 d-c volts
Current 0.24 amp.

Direct Inter-electrode Capacitances
Pentode Connection:
Grid to Plate 1.0 μF.
Input 8.0 μF.
Output 11.0 μF.
Triode Connection:
Grid to Plate 2.6 μF.
Input 6.4 μF.
Output 15.7 μF.

Maximum Overall Length
4-21/32" 1-13/16" 421/32 113/16
Maximum Diameter
St-14

Mounting Position
Medium Shell Octal 7-Pin

Base Pin 1-No Connection
Pin 2-Filament + Pin 5-Grid
Pin 3-Plate Pin 7-Filament -
Pin 4-Screen

AMPLIFIER - CLASS A1 (Pentode Connection)

Plate Voltage 180 max. volts
Screen Voltage 180 max. volts
Plate Dissipation 1.8 max. watts
Screen Dissipation 0.5 max. watt

Typical Operation:
Filament Voltage 2.0 2.0 2.0 d-c volts
Plate Voltage 90 155 180 volts
Screen Voltage 90 155 180 volts
Grid Voltage -2.5 -4.5 -6.0 volts
Cathode Resistor 555 600 508 ohms
Peak A-F Grid Voltage -8.75 -4.75 -6.25 volts
Plate Resistance(approx.) 0.175 0.15 0.137 megohms
Transconductance 1830 2150 2400 μmhos
Zero-Sig. Plate Current 3.6 6.0 9.5 ma.
Max.-Sig. Plate Current 3.6 6.4 9.7 ma.
Zero-Sig. Screen Current 0.9 1.5 2.3 ma.
Max.-Sig. Screen Current 1.5 2.4 4.0 ma.
Load Resistance 25000 15000 15000 ohms
Total Harmonic Distortion 10 10 8 %
Power Output 120 340 750 mw.

AMPLIFIER - CLASS A1 (Triode Connection) *

Plate Voltage 180 max. volts
Plate & Screen Dissipation (total) 2.0 max. watts
Cathode Current 13.0 max. ma.

Typical Operation:
Filament Voltage 2.0 d-c volts
Plate Voltage 135 volts
Grid Voltage -6.0 volts
Peak A-F Grid Voltage 6.25 volts
Zero-Sig. Plate Current 4.4 ma.
Max.-Sig. Plate Current 4.7 ma.
Plate Resistance 6750 ohms
Transconductance 1940 μmhos
Amplification Factor 13.1
Load Resistance 12000 ohms
Second Harmonic Distortion 4 %
Power Output 105 mw.

Horizontal operation permitted if "pins 2 and 7 are in a 
vertical plane."

* Relative to Negative Filament Return. The d-c resistance
in the grid circuit should be limited to 1.0 megohm.

† Screen connected to plate.

AMALGAMATED WIRELESS VALVE CO. PTY. LTD
FEBRUARY, 1941
SYDNEY, AUSTRALIA
RADIotron
1L5-G

AVERAGE PLATE CHARACTERISTICS

$E_p = 20$ VOLTS D.C.
SCREEN VOLTS = 180 V.

PLATE [$I_b$] MILLIAMPERES
The diagram illustrates the average plate characteristics of a 1L5-G radiontron. The graph shows the relationship between plate current (I_p) and plate voltage (E_p) under the conditions:

- Collector voltage (E_C) = 2.0 Volts D.C.
- Screen voltage (E_S) = 135 Volts.

The graph is labeled with various voltages and current levels, indicating the typical operating range of the valve. The grid on the graph is used to measure the coordinates for different points along the curves.