POWER AMPLIFIER

Filament Coated
Voltage 2.5 a-c or d-c volts
Current 1.5 amp.
Direct Interelectrode Capacitances:
Grid to Plate 7 µF
Grid to Filament 4 µF
Plate to Filament 3 µF
Maximum Overall Length 4-11/16"
Maximum Diameter 1-3/16"
Bulb ST-16
Base Pin 1 - Filament Pin 3 - Grid
Pin 2 - Plate Pin 4 - Filament
Mounting Position BOTTOM VIEW vertical, Base Down

CLASS A AMPLIFIER

Operating Conditions and Characteristics:
Filament 2.5 2.5 2.5 a-c volts
Plate 180 250 275 max. volts
Grid -31.5 -50 -55 volts
Amp. Fact. 3.5 3.5 3.5
Plate Res. 1650 1610 1700 ohms
TransCond. 2125 2175 2050 μmhos
Plate Cur. 31 34 36 ma.
Load Res. 2700 3900 4600 ohms
U.P.O. 825 1600 2000 mw.

Cathode-bias is advisable in all cases; required if grid-coupling re-

CLASS AB2 AMPLIFIER

Values are for 2 tubes

Typical Operation:

Filament 2.5 2.5 a-c volts
Plate 275 275 max. volts
Grid -48 -48 volts
Cathode Resistor 775 775 ohms
Average Driving Power (grid to grid) 650 460 mw.
Zero-Sig. Plate Current 28 36 ma.
Max. Sig. Plate Current 138 90 ma.
Load Resistance (per tube) 800 1265 ohms
Effective Load Res. (plate to plate) 3200 5060 ohms
Total Harmonic Distortion 5 5 %
Power Output 18 12 watts

Grid volts measured from mid-point of a-c operated filament.

AVERAGE CHARACTERISTICS

TYPE 45
Ef = 2.5 VOLTS D.C.

PLATE CURRENT (MA) vs. PLATE VOLTAGE (V)

AMPLIFIER FACTOR (V)

PLATE RESISTANCE (M) vs. PLATE VOLTAGE (V)

TRANSCONDUCTANCE (MMHARM) vs. PLATE VOLTAGE (V)

Data indicates

a change.

APRIL 20, 1938
RCA RADIOGRAPH DIVISION
RCA MANUFACTURING COMPANY, INC.
AVERAGE PLATE CHARACTERISTICS

$E_f = 2.5$ VOLTS D.C.

PLATE MILLIAMPERES

PLATE VOLTS

NOV. 17, 1932
RCA RADIotron DIVISION
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