



14A4

MEDIUM-MU TRIODE

14A4
14A5

Heater, for Unipotential Cathode:
 Voltage 12.6[□] ac or dc volts
 Current 0.15^{□□} amp

The 14A4 is the same as the 7A4 except for heater rating.

□ Nominal voltage = 14.0 volts. □□ Nominal current = 0.16 ampere.

14A5

BEAM POWER AMPLIFIER

GENERAL DATA

Electrical:
 Heater, for Unipotential Cathode:
 Voltage 12.6[□] ac or dc volts
 Current 0.15^{□□} amp

Direct Interelectrode Capacitances (Approx.):[○]
 Grid No.1 to Plate 0.4 μμf
 Input 6.8 μμf
 Output 7.0 μμf

○ With external shield connected to cathode.

Mechanical:
 Mounting Position Any
 Maximum Overall Length 2-25/32"
 Maximum Seated Length 2-1/4"
 Maximum Diameter 1-3/16"
 Bulb T-9
 Base Lock-in 8-Pin
 Basing Designation for BOTTOM VIEW 6AA

Pin 1-Heater		Pin 6-Grid No.1
Pin 2-Plate		Pin 7-Cathode, Grid No.3
Pin 3-Grid No.2		Pin 8-Heater
Pin 4-No Connection		Plug -Base Shell
Pin 5-No Connection		

AF POWER AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300 max.	volts
GRID-No.2 (SCREEN) VOLTAGE	300 max.	volts
PLATE DISSIPATION	7.5 max.	watts
GRID-No.2 DISSIPATION	1.5 max.	watts

PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode 90 max. volts
 Heater positive with respect to cathode 90 max. volts

□ Nominal voltage = 14.0 volts.
 □□ Nominal current = 0.16 ampere.

DEC. 30, 1947

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA

14A5
14A7
14B6



14A5 BEAM POWER AMPLIFIER

(continued from preceding page)

Typical Operation and Characteristics:

Plate Voltage.	250	..	volts
Grid-No.2 Voltage.	250	..	volts
Grid-No.1 (Control-Grid) Voltage.	-12.5	..	volts
Cathode-Bias Resistor.	370	..	ohms
Peak AF Grid-No.1 Voltage.	12.5	..	volts
Zero-Signal Plate Current.	30	..	ma
Max.-Signal Plate Current.	32	..	ma
Zero-Signal Grid-No.2 Current.	3.5	..	ma
Max.-Signal Grid-No.2 Current.	5.5	..	ma
Plate Resistance (Approx.)	70000	..	ohms
Transconductance	3000	..	μmhos
Load Resistance.	7500	..	ohms
Total Harmonic Distortion.	7	..	%
Max.-Sig. Power Output	2.8	..	watts

Maximum Circuit Values (for maximum rated conditions):

Grid-No.1-Circuit Resistance:

For fixed bias	0.1	..	megohm
For cathode bias	0.5	..	megohm

14A7 REMOTE-CUTOFF PENTODE

Heater, for Unipotential Cathode:

Voltage.	12.6 [□]	..	ac or dc volts
Current.	0.15 ^{□□}	..	amp

The 14A7 is the same as the 7A7 except for heater rating.

[□] Nominal voltage = 14.0 volts. ^{□□} Nominal current = 0.16 ampere.

14B6 TWIN DIODE—HIGH-MU TRIODE

Heater, for Unipotential Cathode:

Voltage.	12.6 [□]	..	ac or dc volts
Current.	0.15 ^{□□}	..	amp

The 14B6 is the same as the 7B6 except for heater rating.

[□] Nominal voltage = 14.0 volts. ^{□□} Nominal current = 0.16 ampere.