



14A4  
14A5

# 14A4

## MEDIUM-MU TRIODE

Heater, for Unipotential Cathode:

Voltage. . . . .	12.6 <sup>□</sup>	ac or dc volts
Current. . . . .	0.15 <sup>□□</sup>	amp

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

<sup>□</sup> Nominal voltage = 14.0 volts.

<sup>□□</sup> Nominal current = 0.16 ampere.

# 14A5

## BEAM POWER AMPLIFIER

### GENERAL DATA

#### Electrical:

Heater, for Unipotential Cathode:

Voltage. . . . .	12.6 <sup>□</sup>	ac or dc volts
Current. . . . .	0.15 <sup>□□</sup>	amp

Direct Interelectrode Capacitances (Approx.):<sup>○</sup>

Grid No.1 to Plate . . . . .	0.4	μμf
Input. . . . .	6.8	μμf
Output. . . . .	7.0	μμf

<sup>○</sup> 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 2 - Plate

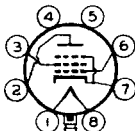
Pin 3 - Grid No.2

Pin 4 - No

Connection

Pin 5 - No

Connection



Pin 6 - Grid No.1

Pin 7 - Cathode,  
Grid No.3

Pin 8 - Heater

Plug - Base  
Shell

### AF POWER AMPLIFIER - Class A<sub>1</sub>

#### 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

<sup>□</sup> Nominal voltage = 14.0 volts.

<sup>□□</sup> Nominal current = 0.16 ampere.

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	. . . . .	$\mu$ hos
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 <sup>□</sup>	. . . . .	ac or dc volts
Current . . . . .	0.15 <sup>□□</sup>	. . . . .	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 <sup>□</sup>	. . . . .	ac or dc volts
Current . . . . .	0.15 <sup>□□</sup>	. . . . .	amp

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

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