



50C6-G

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# BEAM POWER AMPLIFIER

## GENERAL DATA

### Electrical:

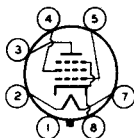
Heater, for Unipotential Cathode:

Voltage . . . . .	50 . . . . .	ac or dc volts
Current . . . . .	0.15 . . . . .	amp

### Mechanical:

Mounting Position . . . . .	Any
Maximum Overall Length . . . . .	4-5/8"
Seated Length . . . . .	3-7/8" + 3/16" - 5/16"
Maximum Diameter . . . . .	1-13/16"
Bulb . . . . .	ST-14
Base . . . . .	Medium-Shell Octal 7-Pin
Basing Designation for BOTTOM VIEW . . . . .	G-7AC

Pin 1-No  
Connection  
Pin 2-Heater  
Pin 3-Plate  
Pin 4-Grid No.2



Pin 5-Grid No.1  
Pin 7-Heater  
Pin 8-Cathode,  
Grid No.3

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

### Maximum Ratings, Design-Center Values:

PLATE VOLTAGE . . . . .	200 max.	volts
GRID-No.2 (SCREEN) VOLTAGE . . . . .	135 max.	volts
PLATE DISSIPATION . . . . .	12.5 max.	watts
GRID-No.2 INPUT . . . . .	1.75 max.	watts

### Typical Operation and Characteristics:

Plate Voltage . . . . .	135	200	volts
Grid-No.2 Voltage . . . . .	135	135	volts
Grid-No.1 (Control-Grid) Voltage . . . . .	-13.5	-14	volts
Peak AF Grid-No.1 Voltage . . . . .	13.5	14	volts
Zero-Signal Plate Current . . . . .	58	61	ma
Max.-Signal Plate Current . . . . .	60	66	ma
Zero-Signal Grid-No.2 Current . . . . .	3.5	2.2	ma
Max.-Signal Grid-No.2 Current . . . . .	11.5	9.0	ma
Plate Resistance (Approx.) . . . . .	9300	18300	ohms
Transconductance . . . . .	7000	7100	μmhos
Load Resistance . . . . .	2000	2600	ohms
Total Harmonic Distortion . . . . .	10	10	%
Max.-Signal Power Output . . . . .	3.6	6.0	watts

Curves shown under Type 6Y6-G also apply to the 50C6-G.