50A5
BEAM POWER AMPLIFIER

GENERAL DATA

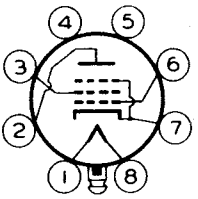
Electrical:

Heater, for Unipotential Cathode:		
Voltage	50	ac or dc volts
Current	0.15	amp

Mechanical:

Mounting Position	Any
Maximum Overall Length	3-5/32"
Maximum Seated Length	2-5/8"
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

AMPLIFIER – Class A_1

Maximum Ratings, ***Design-Center Values*****:**

PLATE VOLTAGE	200 max.	volts
GRID-No.2 (SCREEN) VOLTAGE	117 max.	volts
PLATE DISSIPATION	10 max.	watts
GRID-No.2 DISSIPATION	1.25 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Typical Operation and Characteristics:

Plate Voltage	110	200	volts
Grid-No.2 Voltage	110	110	volts
Grid-No.1 Voltage	-7.5	-8	volts
Peak A-F Grid No.1 Voltage	7.5	8	volts
Zero-Signal Plate Current	49	50	ma
Max.-Signal Plate Current	50	55	ma
Zero-Signal Grid-No.2 Current	4	1.5	ma
Max.-Signal Grid-No.2 Current	8.5	6.0	ma
Plate Resistance (Approx.)	13000	35000	ohms
Transconductance	8000	8250	μmhos
Load Resistance	2000	3000	ohms
Total Harmonic Distortion	10	10	%
Max.-Sig. Power Output	2.1	4.3	watts

Maximum Circuit Values (for maximum rated conditions):

Grid-No.1-Circuit Res.	fixed bias	0.1	megohm
	cathode bias	0.5	megohm