

Beam Power Tube

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (*Design-Maximum Values*):

Voltage (AC or DC)	6.3 ± 0.6	volts
Current at heater volts = 6.3	0.450	amp
Peak heater-cathode voltage:		

Heater negative with respect to cathode	200	max.	volts
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Heater positive with respect to cathode	200 ^a	max.	volts
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Direct Interelectrode Capacitances (Approx.):^b

Grid No.1 to plate.	0.7	μf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	9	μf
Plate to cathode & grid No.3, grid No.2, and heater	7.5	μf

Mechanical:

Operating Position.	Any
Type of Cathode	Coated Unipotential
Maximum Overall Length.	3-5/16"
Maximum Seated Length	2-3/4"
Maximum Diameter.	1-9/32"
Dimensional Outline	See <i>General Section</i>
Bulb.	T9

Bases (Alternates):

Intermediate-Shell Octal:

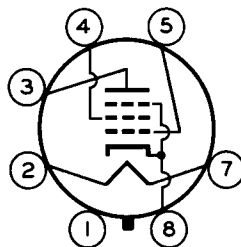
7-Pin, Arrangement 1 (JEDEC Group 1, No.B7-7)

Short Intermediate-Shell Octal with External Barriers:

7-Pin, Arrangement 1 (JEDEC Group 1, No.B7-59)

Basing Designation for BOTTOM VIEW. 7S

Pin 1—No Internal
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 A₁

Maximum Ratings, *Design-Maximum Values*:

PLATE VOLTAGE	350	max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	315	max.	volts
GRID-No.2 INPUT	2.2	max.	watts
PLATE DISSIPATION	14	max.	watts

Typical Operation and Characteristics:

Plate Voltage	60	250	volts
Grid-No.2 Voltage	250	250	volts
Grid-No.1 (Control-Grid) Voltage.	0	-12.5	volts
Peak AF Grid-No.1 Voltage	—	12.5	volts



7408

Zero-Signal Plate Current	100 ^c	45	ma
Max.-Signal Plate Current	—	47	ma
Zero-Signal Grid-No.2 Current	22 ^c	4.5	ma
Max.-Signal Grid-No.2 Current	—	7	ma
Plate Resistance (Approx.)	—	50000	ohms
Transconductance	—	4100	μmhos
Load Resistance	—	5000	ohms
Total Harmonic Distortion	—	7	%
Max.-Signal Power Output	—	4.5	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:			
For fixed-bias operation	0.1 max.	megohm	
For cathode-bias operation	0.5 max.	megohm	

- ^a The dc component must not exceed 100 volts.
- ^b Without external shield.
- ^c This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

