

Beam Power Tube

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (<i>Design-Maximum Values</i>):		
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
Heater positive with respect to cathode	200 ^a	max. volts
Direct Interelectrode Capacitances (Approx.): ^b		
Grid No.1 to plate	0.7	μμuf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	9	μμuf
Plate to cathode & grid No.3, grid No.2, and heater	7.5	μμuf

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 General Section
Bulb	T9

Bases (Alternates):

Intermediate-Shell Octal:

7-Pin, Arrangement 1 (JEDEC Group 1, No.87-7)

Short Intermediate-Shell Octal with External Barriers:

7-Pin, Arrangement 1 (JEDEC Group 1, No.87-59)

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



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	μ hos
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.

