

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
 Heater positive with respect to cathode 200^a max. volts

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 *General Section*
 Bulb T9

Bases (Alternates):

Intermediate-Shell Octal:

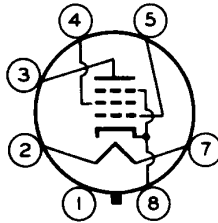
7-Pin, Arrangement 1 (JEDEC Group 1, No. B7-7)

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	μ mhos
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.

