

Beam Power Tube

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) $35 \pm 10\%$ volts ←
 Current at 35 volts 0.15 amp

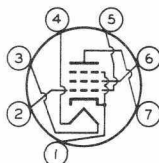
Direct Interelectrode Capacitances (Approx.):^a

Grid No.1 to plate 0.6 μf
 Grid No.1 to cathode & grid No.3,
 grid No.2, and heater 12 μf
 Plate to cathode & grid No.3,
 grid No.2, and heater 9 μf

Mechanical:

Operating Position Any
 Maximum Overall Length 2-5/8"
 Maximum Seated Length 2-3/8"
 Length, Base Seat to Bulb Top (Excluding tip) 2" $\pm 3/32$ "
 Diameter 0.650" to 0.750"
 Dimensional Outline See General Section
 Bulb T5-1/2
 Base Small-Button Miniature 7-Pin (JEDEC No.E7-1)
 Basing Designation for BOTTOM VIEW 7CV

Pin 1—Cathode,
 Grid No.3
 Pin 2—Grid No.1
 Pin 3—Heater



Pin 4—Heater
 Pin 5—Grid No.1
 Pin 6—Grid No.2
 Pin 7—Plate

AF POWER AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 150 max. volts
 GRID-No.2 (SCREEN-GRID) VOLTAGE 130 max. volts
 GRID-No.1 (CONTROL-GRID) VOLTAGE:
 Positive-bias value 0 max. volts
 GRID-No.2 INPUT 1.1 max. watts
 PLATE DISSIPATION 5.2 max. watts
 PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with
 respect to cathode 200 max. volts
 Heater positive with
 respect to cathode 200^b max. volts
 BULB TEMPERATURE (At hottest point
 on bulb surface) 250 max. °C

← Indicates a change.



35C5

Typical Operation and Characteristics:

Plate Voltage.	110	volts
Grid-No.2 Voltage.	110	volts
Grid-No.1 (Control-Grid) Voltage.	-7.5	volts
Peak AF Grid-No.1 Voltage.	7.5	volts
Zero-Signal Plate Current.	40	ma
Max.-Signal Plate Current.	41	ma
Zero-Signal Grid-No.2 Current.	3	ma
Max.-Signal Grid-No.2 Current.	7	ma
Plate Resistance (Approx.)	13000	ohms
Transconductance	5800	μ mhos
Load Resistance.	2500	ohms
Total Harmonic Distortion.	10	%
Max.-Signal Power Output	1.5	watts

Maximum Circuit Values:

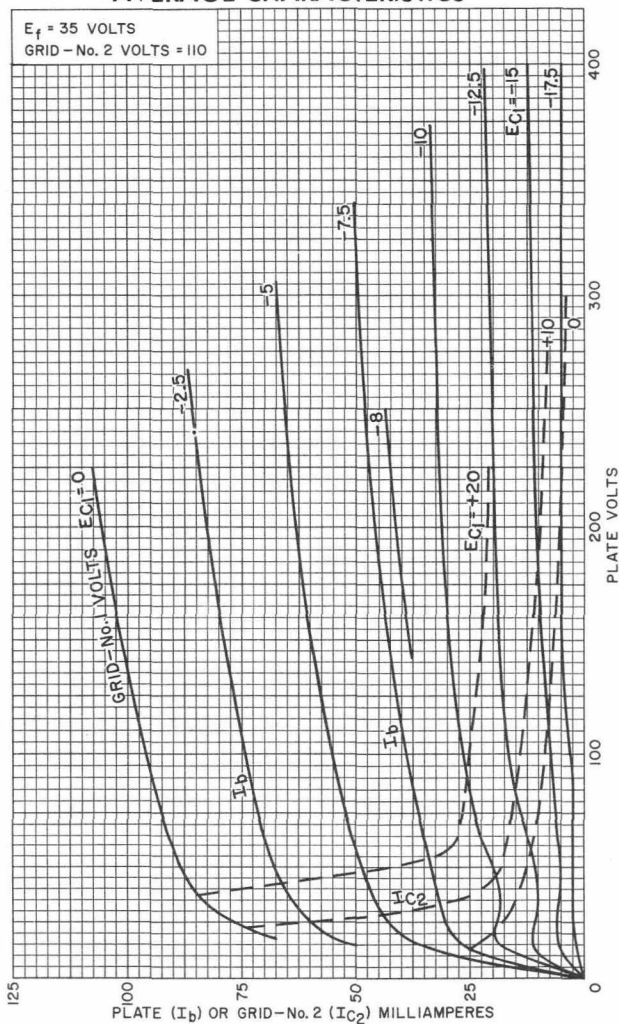
Grid-No.1-Circuit Resistance:

For fixed-bias operation	0.1 max.	megohm
For cathode-bias operation	0.5 max.	megohm

^a Without external shield.

^b The dc component must not exceed 100 volts.

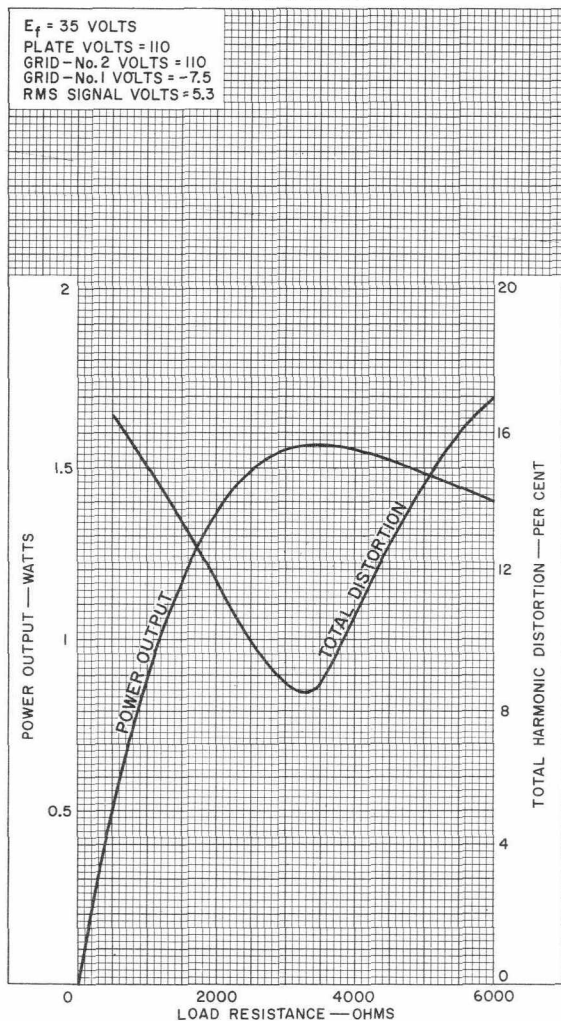
AVERAGE CHARACTERISTICS



92CM-6312RI



OPERATION CHARACTERISTICS



92CM-6794

