

Beam Power Tube

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

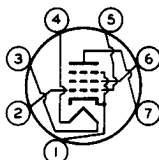
Heater, for Unipotential Cathode:

Voltage (AC or DC)	35 ± 10%	volts ←
Current at 35 volts	0.15	amp
Direct Interelectrode Capacitances (Approx.): ^a		
Grid No.1 to plate	0.6	μmf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	12	μmf
Plate to cathode & grid No.3, grid No.2, and heater	9	μmf

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" ± 3/32"
Diameter	0.650" to 0.750"
Dimensional Outline	See <i>General Section</i>
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 hos
Load Resistance.	2500	ohms
Total Harmonic Distortion.	10	%
Max.-Signal Power Output	1.5	watts

Maximum Circuit Values:

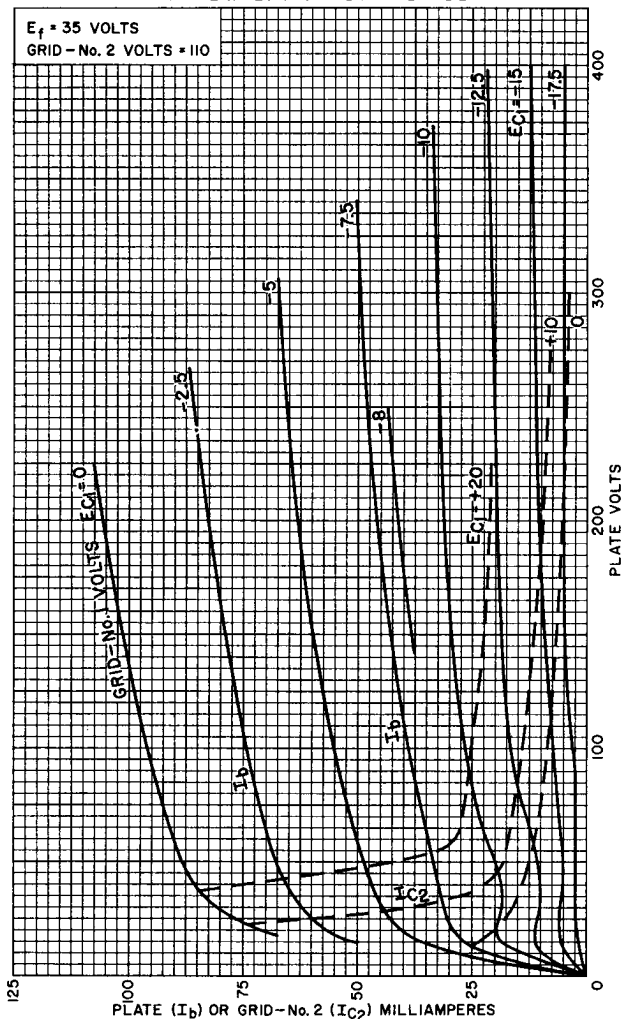
Grid-No.1-Circuit Resistance:		
For fixed-bias operation	0.1 max.	megohm
For cathode-bias operation	0.5 max.	megohm

^a Without external shield.

^b The dc component must not exceed 100 volts.



AVERAGE CHARACTERISTICS

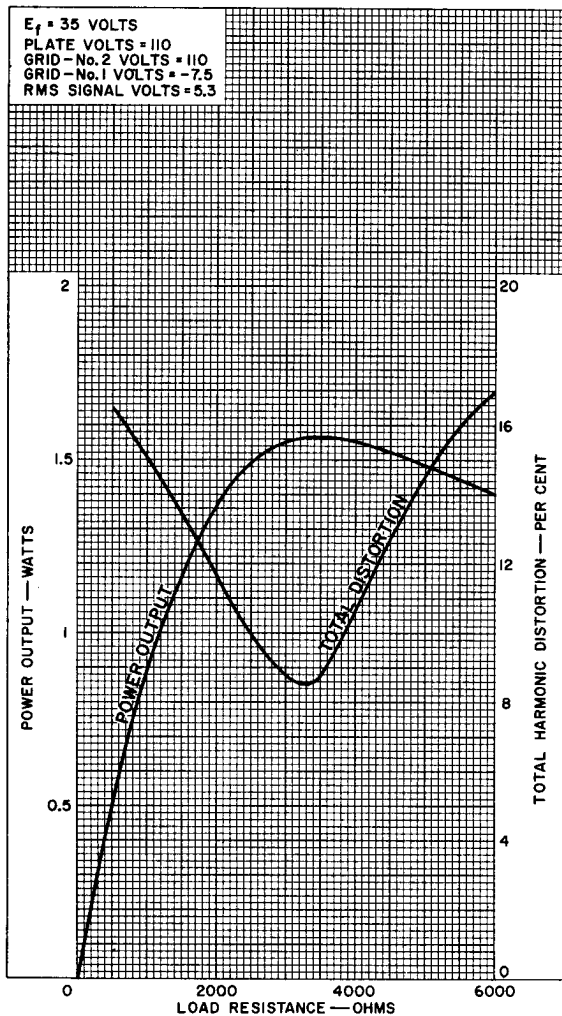


92CM-6312RI



OPERATION CHARACTERISTICS

$E_f = 35$ VOLTS
 PLATE VOLTS = 110
 GRID - No. 2 VOLTS = 110
 GRID - No. 1 VOLTS = -7.5
 RMS SIGNAL VOLTS = 5.3



92CM-6794

