



25C5

BEAM POWER TUBE

7-PIN MINIATURE TYPE

25C5

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage 25 ac or dc volts

Current 0.3 amp

Direct Interelectrode Capacitances (Approx.)^o:

Grid No.1 to plate. 0.6 μ f

Grid No.1 to cathode & grid No.3,
grid No.2 and heater. 13 μ f

Plate to cathode & grid No.3,
grid No.2 and heater. 8.5 μ f

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"

Maximum Diameter. 3/4"

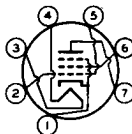
Dimensional Outline See General Section

Bulb. T5-1/2

Base. Small-Button Miniature 7-Pin (JETEC 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

AMPLIFIER — Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 135 max. volts

GRID-No.2 (SCREEN-GRID) VOLTAGE 117 max. volts

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Positive bias value 0 max. volts

GRID-No.2 INPUT 1.25 max. watts

PLATE DISSIPATION 6 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 200 max. volts

Heater positive with respect to cathode. 200* max. volts

BULB TEMPERATURE (At hottest point
on bulb surface). 220 max. °C

Typical Operation and Characteristics:

Plate Voltage 120 volts

Grid-No.2 Voltage 110 volts

Grid-No.1 Voltage -8 volts

^o,*: See next page.

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Peak AF Grid-No.1 Voltage.	8	volts
Zero-Signal Plate Current.	49	ma
Max.-Signal Plate Current.	50	ma
Zero-Signal Grid-No.2 Current.	4	ma
Max.-Signal Grid-No.2 Current.	8.5	ma
Plate Resistance (Approx.)	10000	ohms
Transconductance	7500	μ mhos
Load Resistance.	2500	ohms
Total Harmonic Distortion.	10	%
Max.-Signal Power Output	2.3	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

° without external shield.

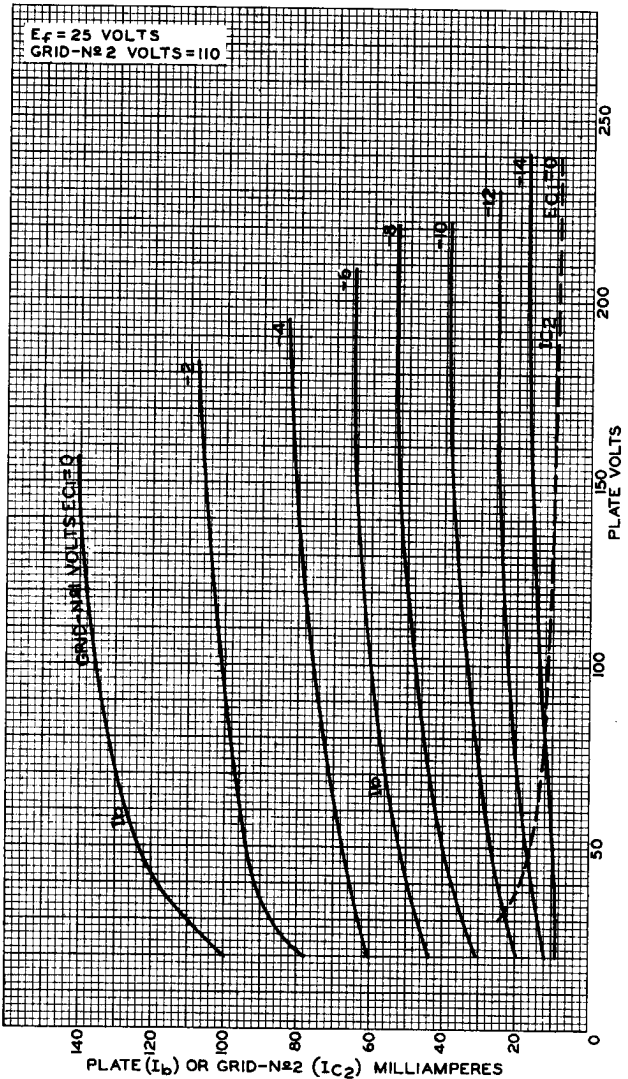
* The dc component must not exceed 100 volts.



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AVERAGE CHARACTERISTICS



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OPERATION CHARACTERISTICS

$E_f = 25$ VOLTS PLATE VOLTS = 120 GRID-N $\#$ 2 VOLTS = 110
 GRID-N $\#$ 1 VOLTS = -8 SIGNAL VOLTS (RMS) = 5.7

