



6DS5

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BEAM POWER TUBE

7-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3 ac or dc volts
Current	0.8 amp

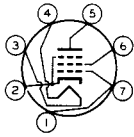
Direct Interelectrode Capacitances (Approx.):^o

Grid No.1 to plate.	0.19	μ f
Grid No.1 to cathode & grid No.3, grid No.2, and heater	9.5	μ f
Plate to cathode & grid No.3, grid No.2, and heater	6.3	μ f

Mechanical:

Mounting 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.	7BZ

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



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

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	250 max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	250 max.	volts
GRID-No.1 (CONTROL-GRID) VOLTAGE:		
Positive bias value	0 max.	volts
GRID-No.2 INPUT	2 max.	watts
PLATE DISSIPATION	8 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts
BULB TEMPERATURE (At hottest point on bulb surface).	250 max.	$^{\circ}$ C

Typical Operation and Characteristics:

Fixed-Bias Operation

Plate Voltage	200	250	volts
Grid-No.2 Voltage	200	200	volts
Grid-No.1 Voltage	-7.5	-8.5	volts
Peak AF Grid-No.1 Voltage	7.5	8.5	volts

^o without external shield.

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Zero-Signal Plate Current	35	29	ma
Max.-Signal Plate Current	36	32	ma
Zero-Signal Grid-No.2 Current	3	3	ma
Max.-Signal Grid-No.2 Current	9	10	ma
Plate Resistance (Approx.)	28000	28000	ohms
Transconductance	6000	5800	μ hos
Load Resistance	6000	8000	ohms
Total Harmonic Distortion	9	10	%
Max.-Signal Power Output	3	3.8	watts

Cathode-Bias Operation

Plate-Supply Voltage	200	250	volts
Grid-No.2 Supply Voltage	200	200	volts
Cathode Resistor	180	270	ohms
Peak AF Grid-No.1 Voltage	7.5	9.2	volts
Zero-Signal Plate Current	34.5	27	ma
Max.-Signal Plate Current	32.5	25	ma
Zero-Signal Grid-No.2 Current	3.5	3	ma
Max.-Signal Grid-No.2 Current	9	9	ma
Plate Resistance (Approx.)	28000	28000	ohms
Transconductance	6000	5800	μ hos
Load Resistance	6000	8000	ohms
Total Harmonic Distortion	10	10	%
Max.-Signal Power Output	2.8	3.6	watts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

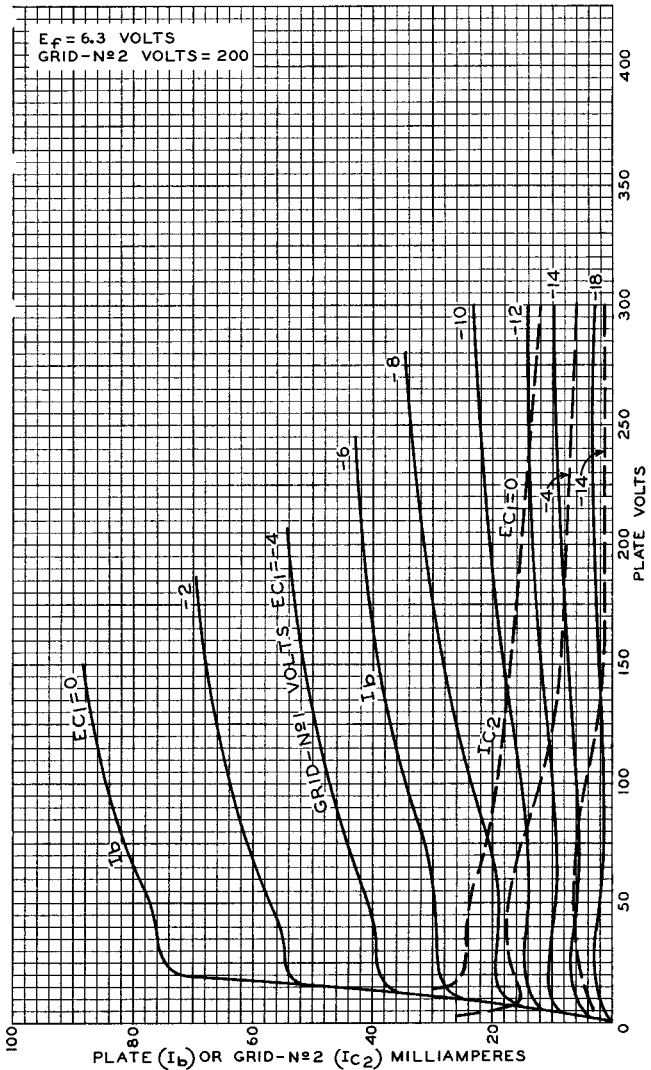
For fixed-bias operation	0.1 max.	megohm
For cathode-bias operation	1.0 max.	megohm



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AVERAGE CHARACTERISTICS



ELECTRON TUBE DIVISION

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9292

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OPERATION CHARACTERISTICS

