



6DG6-GT

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BEAM POWER TUBE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3	ac or dc volts
Current	1.2	amp

Direct Interelectrode Capacitances (Approx.):^o

Grid No.1 to plate	0.6	μf
Grid No.1 to cathode & grid No.3, grid No.2, and heater	15	μf
Plate to cathode & grid No.3, grid No.2, and heater	10	μf

Mechanical:

Mounting Position	Any
Maximum Overall Length	3-5/16"
Maximum Seated Length	2-3/4"
Maximum Diameter	1-9/32"
Dimensional Outline	See General Section

Bulb. T-9

Base. Intermediate-Shell Octal 7-Pin (JETEC No.87-7),
Short Intermediate-Shell Octal 7-Pin
with External Barriers (JETEC No.87-59),
Intermediate-Shell Octal 6-Pin (JETEC No.86-81),
or Short Intermediate-Shell Octal 6-Pin
with External Barriers (JETEC No.86-84)

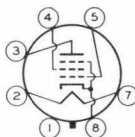
Basing Designation for BOTTOM VIEW. 7S

Pin 1 ♦ - No 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.3AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	200 max.	volts
GRID-No.2 (SCREEN-GRID) VOLTAGE	125 max.	volts
PLATE DISSIPATION	10 max.	watts
GRID-No.2 INPUT	1.25 max.	watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode	90 max.	volts
Heater positive with respect to cathode	90 max.	volts

Typical Operation and Characteristics:

Plate Voltage	110	200	volts
Grid-No.2 Voltage	110	125	volts
Grid-No.1 (Control-Grid) Voltage.	-7.5	0	volts

^o Without external shield.

♦ On the 6-pin bases, pin 1 as well as pin 6 is omitted.

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Peak AF Grid-No.1 Voltage.	7.5	8.5	volts
Cathode Resistor	0	180	ohms
Zero-Signal Plate Current.	49	46	ma
Max.-Signal Plate Current.	50	47	ma
Zero-Signal Grid-No.2 Current.	4	2.2	ma
Max.-Signal Grid-No.2 Current.	10	8.5	ma
Plate Resistance (Approx.)	13000	28000	ohms
Transconductance	8000	8000	μ mhos
Load Resistance.	2000	4000	ohms
Total Harmonic Distortion.	10	10	%
Max.-Signal Power Output	2.1	3.8	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

Curves shown under Type 50L6-GT also apply to the 6DG6-GT