



19BG6-G

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BEAM POWER AMPLIFIER

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage. 18.9 ac or dc volts

Current. 0.3 amp

Transconductance (Approx.) with plate

volts = 250, grid-No.2 volts = 250,

grid-No.1 volts = -15 6000 μ hos

Mu-Factor, Grid No.2 to Grid No.1 with

plate volts = 250, grid-No.2 volts = 250,

grid-No.1 volts = -20 8

Direct Interelectrode Capacitances:⁰

Grid No.1 to Plate. . . 0.65 max. μ f

Input 11 μ f

Output. 6.5 μ f

⁰ With no external shield.

Mechanical:

Mounting Position . . Vertical, Base Up or Down; Horizontal,
with Plane of Pins 2 & 7 Vertical

Maximum Overall Length. 5-11/16"

Seated Length 4-31/32" $\pm$ 5/32"

Maximum Diameter. 2-1/16"

Bulb. ST-16

Cap Small

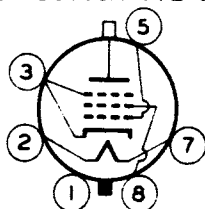
Base. Medium-Shell Octal 6-Pin

Basing Designation for BOTTOM VIEW. 5BT

Pin 1 - No Connection

Pin 2 - Heater

Pin 3 - Cathode,
Grid No.3



Pin 5 - Grid No.1

Pin 7 - Heater

Pin 8 - Grid No.2

Cap - Plate

HORIZONTAL DEFLECTION AMPLIFIER

Maximum Ratings, Design-Center Values:

For operation in a 525-line, 30-frame system[□]

DC PLATE VOLTAGE 700 max. volts

PEAK POSITIVE-PULSE PLATE VOLTAGE* 6000 max. volts

PEAK NEGATIVE-PULSE PLATE VOLTAGE* -1500 max. volts

DC GRID-No.2 (SCREEN) VOLTAGE* 350 max. volts

DC GRID-No.1 (CONTROL-GRID) VOLTAGE. -50 max. volts

[□] As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

* The duration of the voltage pulse must not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

• Preferably obtained through a series-dropping resistor of sufficient magnitude to limit the grid-No.2 input to the rated maximum value.

SEPT. 1, 1950

TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

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PEAK NEGATIVE-PULSE GRID-No.1 VOLTAGE. . .	-400 max.	volts
DC PLATE CURRENT	100 max.	ma
GRID-No.2 INPUT.	3.2 max.	watts
PLATE DISSIPATION.	20 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	250 max.	volts
Heater positive with respect to cathode.	250 max.	volts

Maximum Circuit Values:

Grid-No.1-Circuit Resistance	1.0 max.	megohm
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