

# 6GB5

## Beam Power Tube

### MAGNOVAL TYPE

#### ELECTRICAL

##### Heater Characteristics and Ratings

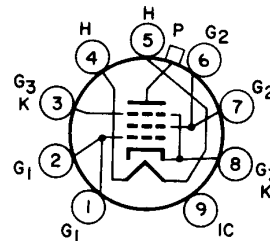
|                                          |           |   |
|------------------------------------------|-----------|---|
| Voltage (AC or DC)                       | 6.3 ± 0.6 | V |
| Current at 6.3 V                         | 1.380     | A |
| Maximum heater-cathode voltage           |           |   |
| Heater negative with respect to cathode: |           |   |
| Peak                                     | 250       | V |
| DC component                             | 125       | V |
| Heater positive with respect to cathode: |           |   |
| Peak                                     | 250       | V |
| DC component                             | 125       | V |

#### MECHANICAL

|                        |                                                 |
|------------------------|-------------------------------------------------|
| Operating Position     | Any                                             |
| Type of Cathode        | Coated Unipotential                             |
| Maximum Overall Length | 4.125 in                                        |
| Maximum Seated Length  | 3.750 in                                        |
| Diameter               | 1.062 to 1.188 in                               |
| Envelope               | JEDEC T9                                        |
| Cap.                   | Skirted Miniature (JEDEC No. C1-2)              |
| Base                   | Small-Button Magnoval 9-Pin (JEDEC No. E9-23) ← |

#### TERMINAL DIAGRAM (Bottom View)

- Pin 1 - Grid-No.1
- Pin 2 - Grid-No.1
- Pin 3 - Cathode, Grid No.3
- Pin 4 - Heater
- Pin 5 - Heater
- Pin 6 - Grid No.2
- Pin 7 - Grid No.2
- Pin 8 - Cathode, Grid No.3
- Pin 9 - Do Not Use
- Cap - Plate



9NH

#### CHARACTERISTICS, INSTANTANEOUS VALUES<sup>a</sup>

|                                  |     |    |
|----------------------------------|-----|----|
| Plate Voltage                    | 75  | V  |
| Grid-No.2 (Screen-Grid) Voltage  | 200 | V  |
| Grid-No.1 (Control-Grid) Voltage | -10 | V  |
| Plate Current                    | 440 | mA |
| Grid-No.2 Current                | 37  | mA |

#### HORIZONTAL-DEFLECTION AMPLIFIER

##### Maximum Ratings, Design-Maximum Values

For operation in a 525-line, 30-frame system

|                                                |      |   |
|------------------------------------------------|------|---|
| DC Plate-Supply Voltage                        | 275  | V |
| Peak Positive-Pulse Plate Voltage <sup>b</sup> | 7700 | V |
| DC Grid-No.2 Voltage                           | 275  | V |

← Indicates a change.



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|                                          |     |    |
|------------------------------------------|-----|----|
| Average Cathode Current. . . . .         | 275 | mA |
| Grid-No.2 Input <sup>c</sup> . . . . .   | 5   | W  |
| Plate Dissipation <sup>d</sup> . . . . . | 17  | W  |

## MAXIMUM CIRCUIT VALUES

### Grid-No.1-Circuit Resistance

|                                                             |     |    |
|-------------------------------------------------------------|-----|----|
| Without grid current . . . . .                              | 0.5 | MΩ |
| With grid current (Horizontal output service only). . . . . | 2.2 | MΩ |

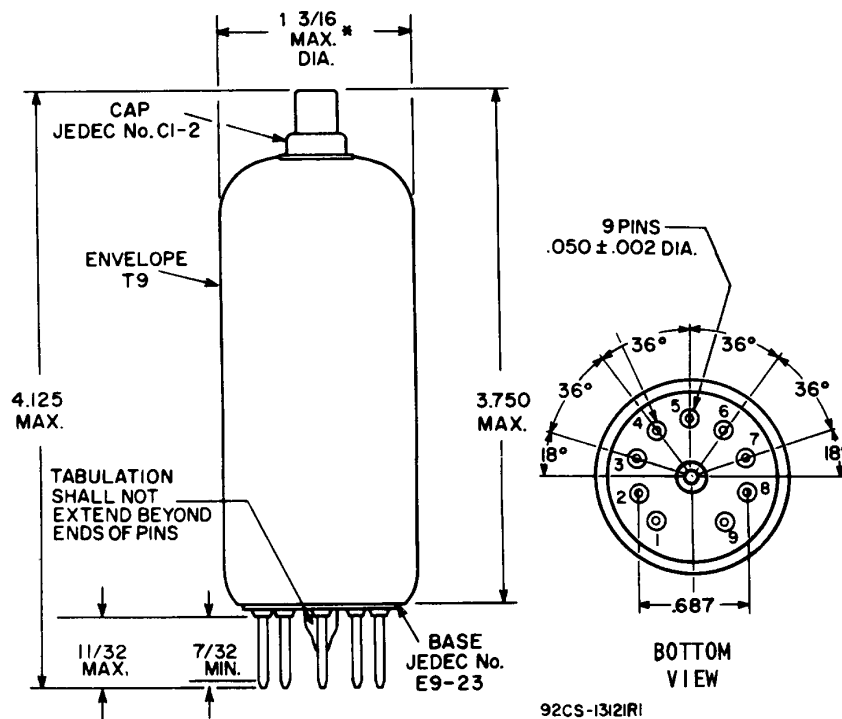
<sup>a</sup> Not to be tested under DC conditions.

<sup>b</sup> This rating is applicable where the duration of the voltage pulse does 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.

<sup>c</sup> Grid-No.2 input may reach 6 watts for plate-dissipation values below 11 watts.

<sup>d</sup> An adequate bias resistor or other means is required to protect the tube in the absence of excitation.

## DIMENSIONAL OUTLINE



DIMENSIONS IN INCHES

For pin alignment use gauge No. GE9-2.

\* Applies in zone starting 0.375 inch from base seat.

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