6GB5

Beam Power Tube

MAGNOVAL TYPE

ELECTRICAL

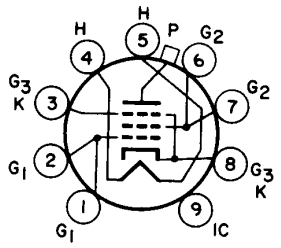
Heater Characteristics and Ratings		
Voltage (AC or DC)	6.3 ± 0.6	V
Current at 6.3 V	1.380	A
Maximum heater-cathode voltage		
Heater negative with respect to cathode:		
Peak	250	V
DC component	125	V
Heater positive with respect to cathode:		
Peak	250	V
DC component	125	V

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[a]

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[b]	7700	V
DC Grid-No.2 Voltage	275	V

← Indicates a change.

Average Cathode Current	275	mA
Grid-No.2 Input[c]	5	W
Plate Dissipation[d]	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

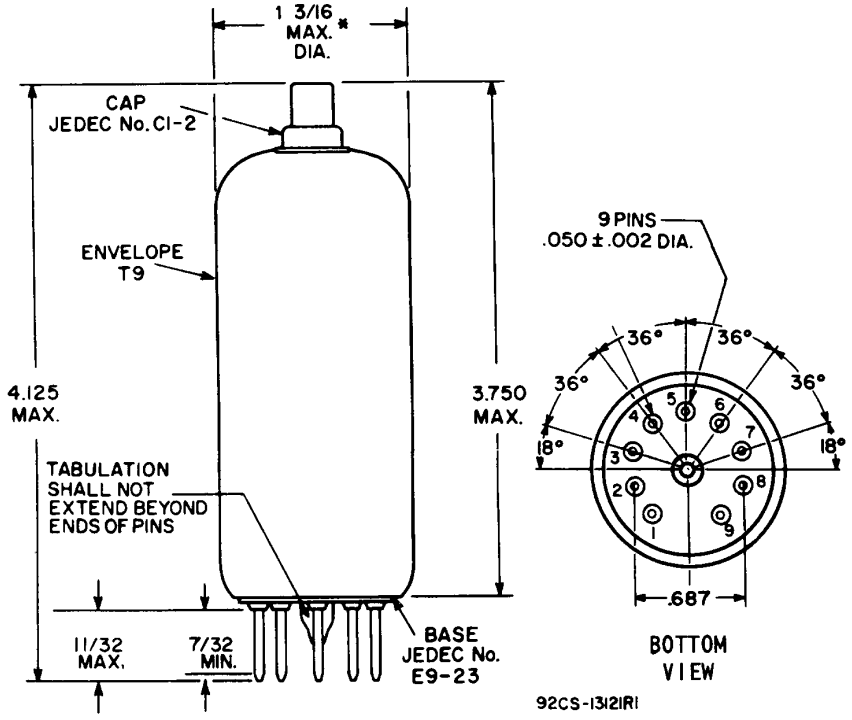
[a] Not to be tested under DC conditions.

[b] 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.

[c] Grid-No.2 input may reach 6 watts for plate-dissipation values below 11 watts.

[d] 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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