

9T9 BEAM-POWER PENTODE TYPE 6GC5

The 6GC5 is a 9T9 beam-power pentode type designed for service in the output stage of audio amplifiers. This type features high power sensitivity and plate efficiency at low plate and grid 2 voltages.

ELECTRICAL

Cathode.....	Coated Unipotential
Heater:	
Voltage (ac or dc).....	6.3 ± 0.6 Volts
Current.....	1.20 Ampere
Direct Interelectrode Capacitances:	
Grid 1 to Plate.....	0.9 $\mu\mu\text{f}$
Input.....	18 $\mu\mu\text{f}$
Output.....	7 $\mu\mu\text{f}$

MECHANICAL

Bulb.....	T-9
Base.....	9-Pin Button Base (JEDEC E9-68)
Outline.....	9-71
Basing.....	9EU
Mounting Position.....	Any

MAXIMUM RATINGS

Design Maximum Values

Plate Voltage.....	220 max.	Volts
Plate Dissipation.....	12 max.	Watts
Grid 2 Voltage.....	140 max.	Volts
Grid Dissipation.....	1.4 max.	Watts

Heater-Cathode Voltage:

Heater Negative with Respect to Cathode:

Total DC + Peak.....	200 max.	Volts
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Heater Positive with Respect to Cathode:

DC Component.....	100 max.	Volts
Total DC + Peak.....	200 max.	Volts

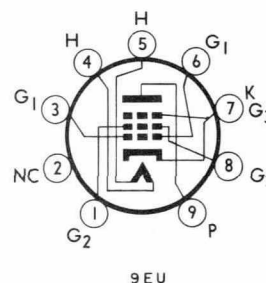
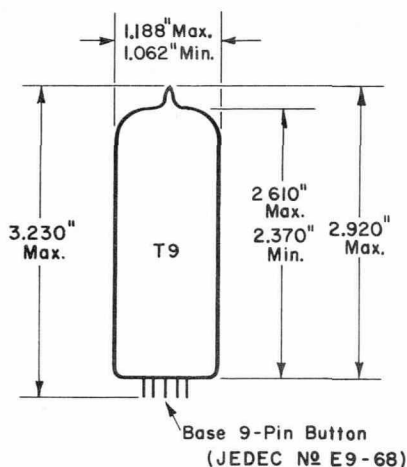
Grid 1 Circuit Resistance:

Cathode Bias.....	0.5 max.	Megohm
Fixed Bias.....	0.1 max.	Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Class A₁ Amplifier

Plate Voltage.....	110	200	Volts
Grid 2 Voltage.....	110	125	Volts
Grid 1 Voltage.....	-7.5	-	Volts
Cathode Bias Resistor.....	-	180	Ohms
Peak A-F Grid 1 Voltage.....	7.5	8.5	Volts
Zero Signal Plate Current.....	49	46	Ma.
Zero Signal Grid 2 Current.....	4	2.2	Ma.
Max. Signal Plate Current.....	50	47	Ma.
Max. Signal Grid 2 Current.....	10	8.5	Ma.
Transconductance.....	8000	8000	μmhos
Plate Resistance, Approx.....	13000	28000	Ohms
Load Resistance.....	2000	4000	Ohms
Power Output.....	2.1	3.8	Watts
Total Harmonic Distortion.....	10	10	Percent



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