

6GW8/ECL86

High-Mu Triode-Sharp-Cutoff Pentode

Electrical:

Heater Characteristics and Ratings:

Voltage (AC or DC)	6.3	volts
Current at heater volts = 6.3	0.660	amp
Peak heater-cathode voltage	100	volts

Direct Interelectrode Capacitances:

Triode Unit:

Grid to plate	1.4	pf
Input: G_T to (K_T , H)	2.3	pf
Output: P_T to (K_T , H)	2.5	pf
Grid to heater	0.006 max.	pf

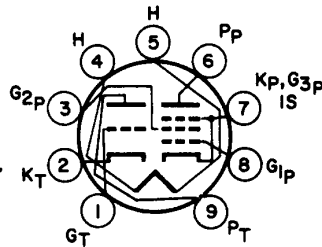
Pentode Unit:

Grid No.1 to plate	0.4 max.	pf
Input: G_{1P} to ($K_P+G_{3P}+IS, G_{2P}, H$)	10.0	pf
Grid No.1 to heater	0.24 max.	pf
Triode plate to pentode grid No.1	0.2 max.	pf
Triode grid to pentode plate	0.006 max.	pf
Triode grid to pentode grid No.1	0.02 max.	pf
Triode plate to pentode plate	0.15 max.	pf

Mechanical:

Operating Position	Any
Maximum Overall Length	3-1/16"
Maximum Seated Length	2-13/16"
Length, Base Seat to Bulb Top (Excluding Tip)	2-7/16" \pm 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline (JEDEC No.6-4)	See <i>General Section</i>
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW	9LZ

- Pin 1 - Triode Grid
- Pin 2 - Triode Cathode
- Pin 3 - Pentode Grid No.2
- Pin 4 - Heater
- Pin 5 - Heater
- Pin 6 - Pentode Plate
- Pin 7 - Pentode Cathode, Grid No.3,
Internal Shield
- Pin 8 - Pentode Grid No.1
- Pin 9 - Triode Plate



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CLASS A₁ AMPLIFIER

Characteristics:

	Triode Unit	Pentode Unit	
Plate Voltage.	250	250	volts
Grid No.2 (Screen-Grid) Voltage.	-	250	volts
Grid No.1 (Control-Grid) Voltage	-1.9	-7	volts
Amplification Factor	100	21 ^a	
Plate Resistance (Approx.)	-	48000	ohms
Transconductance	1600	10000	μmhos
Plate Current.	1.2	36	ma
Grid-No.2 Current.	-	6	ma

Maximum Ratings, Design-Center Values:

Plate Supply Voltage	550	550	volts
Plate Voltage.	300	300	volts
Grid-No.2 Supply Voltage	-	550	volts
Grid-No.2 Voltage.	-	300	volts
Average Cathode Current.	4	55	ma
Grid-No.2 Input.	-	1.8	watts
Plate Dissipation.	0.5	9	watts
Grid-No.1 Voltage at grid No.1 μa = 0.3	-1.3	-1.3	volts

Maximum Circuit Values:

Grid-No.1 Circuit Resistance: For fixed-bias operation	1	0.5	megohm
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^a Grid No.1 to Grid No.2

