

High-Mu Triode—Power Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater Characteristics and Ratings (<i>Absolute-Maximum Values</i>):			
Voltage (AC or DC)	6.3 ± 0.6	volts	
Current at heater volts = 6.3	0.900	amp	
Peak heater-cathode voltage			
(Each unit):			
Heater negative with			
respect to cathode.	220 max.	volts	
Heater positive with			
respect to cathode.	220 max.	volts	

Characteristics, Class A₁ Amplifier:

	Triode Unit	Pentode Unit			
Plate Voltage	100	50	65	170	volts
Grid-No.2 Voltage	—	170	210	170	volts
Grid-No.1 Voltage	-0.8	-1	-1	-15	volts
Amplification Factor	50	—	—	—	
Amplification Factor, Grid No.1					
to Grid No.2.	—	—	—	7	
Plate Resistance (Approx.) . . .	7600	—	—	25000	ohms
Transconductance	6500	—	—	7500	μmhos
Plate Current	5	200 ^a	240 ^a	41	ma
Grid-No.2 Current	—	40 ^a	50 ^a	2.7	ma

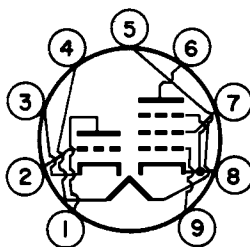
Mechanical:

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" ± 3/32"
Diameter	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)

Basing Designation for BOTTOM VIEW. 9LY

Pin 1—Triode Plate
Pin 2—Triode Grid
Pin 3—Triode
Cathode

Pin 4—Heater
Pin 5—Heater
Pin 6—Pentode Plate
Pin 7—Pentode
Grid No.2



Pin 8—Pentode
Grid No.3,
Cathode,
Internal
Shield

Pin 9—Pentode
Grid No.1



6GV8

AMPLIFIER — Class A₁

Maximum Ratings, Absolute-Maximum Values:

	Triode Unit	Pentode Unit	
PLATE SUPPLY VOLTAGE.	550 max.	550 max.	volts
PLATE VOLTAGE:			
Peak ^b	—	2000 max.	volts
DC.	250 max.	250 max.	volts
GRID-No.2 (SCREEN-GRID)			
SUPPLY VOLTAGE.	—	550 max.	volts
VOLTAGE	—	250 max.	volts
CATHODE CURRENT:			
Peak ^c	200 max.	—	ma
DC.	15 max.	75 max.	ma
GRID-No.2 INPUT	—	2 max.	watts
PLATE DISSIPATION	0.5 max.	7 max.	watts

Maximum Circuit Values:

	Triode Unit	Pentode Unit	
Grid-No.1-Circuit Resistance:			
For fixed-bias operation. . .	1 max.	1 max.	megohm
For cathode-bias operation. .	3.3 max.	2.2 max.	megohms

^a This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

^b Maximum pulse duration 5 per cent of a cycle with a maximum of 1 milli-second.

^c Maximum pulse duration 200 microseconds. If a larger flyback is required, this value may be reduced to 100 ma. with a maximum pulse duration of 400 microseconds.

