

Diode—Remote-Cutoff Pentode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC)	6.3 $\pm$ 10%	volts
Current at 6.3 volts.	0.3	amp

Direct Interelectrode Capacitances:▲

Pentode Unit:

Grid No.1 to plate.	0.002 max.	μ f
Grid No.1 to cathode, grid No.3, grid No.2, internal shield, and heater.	5.5	μ f
Plate to cathode, grid No.3, grid No.2, internal shield, and heater.	5	μ f
Pentode grid No.1 to diode plate. .	0.0015 max.	μ f
Pentode plate to diode plate. . . .	0.095	μ f

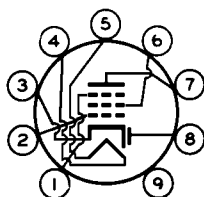
Characteristics, Class A₁ Amplifier (Pentode Unit):

Plate Voltage	100	volts
Grid No.3	Connected to cathode at socket	
Internal Shield	Connected to cathode at socket	
Grid-No.2 Voltage	100	volts
Grid-No.1 Supply Voltage.	0	volts
Grid-No.1 Resistor (Bypassed)	2.2	megohms
Plate Resistance (Approx.)	0.25	megohm
Transconductance.	3800	μ mhos
Plate Current	9	ma
Grid-No.2 Current	3.5	ma
Grid-No.1 Voltage (Approx.) for transconductance (μ mhos) = 40	-20	volts

Mechanical:

Operating Position.	Any
Maximum Overall Length.	2-5/8"
Maximum Seated Length	2-3/8"
Length, Base Seat to Bulb Top (Excluding tip) . . .	2" $\pm$ 3/32"
Diameter.	0.750" to 0.875"
Dimensional Outline	See General Section
Bulb.	T6-1/2
Base.	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW.	9LQ

Pin 1—Pentode
Grid No.3
Pin 2—Pentode
Grid No.1
Pin 3—Cathode
Pin 4—Heater
Pin 5—Heater



Pin 6—Pentode
Grid No.2
Pin 7—Pentode
Plate
Pin 8—Diode Plate
Pin 9—Internal
Shield



PENTODE UNIT — AMPLIFIER — CLASS A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE	300	max.	volts
GRID-No.3 (SUPPRESSOR-GRID) VOLTAGE:			
Positive value.	300	max.	volts
Negative value.	300	max.	volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE. . .	300	max.	volts
GRID-No.2 VOLTAGE	<i>See Grid-No.2 Input Rating Chart at front of Receiving Tube Section</i>		
GRID-No.1 (CONTROL-GRID) VOLTAGE:			
Positive-bias value	0	max.	volts
Negative-bias value	50	max.	volts
GRID-No.3 INPUT	0.2	max.	watt
GRID-No.2 INPUT:			
For grid-No.2 voltages up to			
150 volts	0.6	max.	watt
For grid-No.2 voltages between 150			
and 300 volts	<i>See Grid-No.2 Input Rating Chart at front of Receiving Tube Section</i>		
PLATE DISSIPATION	3	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode .	200	max.	volts
Heater positive with respect to cathode .	200	max.	volts
BULB TEMPERATURE (At hottest point on			
bulb surface)	150	max.	°C

DIODE UNIT

Maximum Ratings, Design-Maximum Values:

PLATE CURRENT	1	max.	ma
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Characteristics, Instantaneous Test Condition:

Plate Current for plate volts = 10.	2	ma
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▲ without external shield.

● The dc component must not exceed 100 volts.

AVERAGE CHARACTERISTICS Pentode Unit

$E_f = 6.3$ VOLTS
GRID-Nº3 AND INTERNAL SHIELD
CONNECTED TO CATHODE AT SOCKET.
GRID-Nº2 VOLTS=100



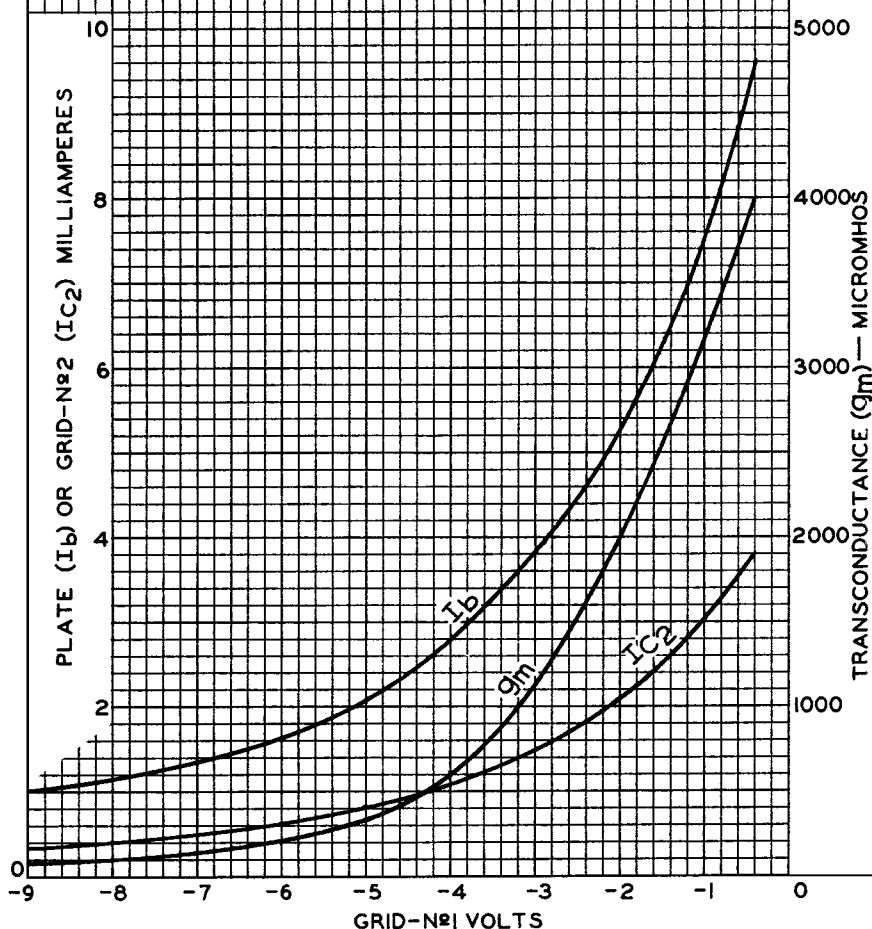
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AVERAGE CHARACTERISTICS Pentode Unit

$E_f = 6.3$ VOLTS
PLATE VOLTS = 100
GRID N^o3 AND INTERNAL SHIELD
CONNECTED TO CATHODE AT SOCKET.
GRID-N^o2 VOLTS = 100



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