



6CU8

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MEDIUM-MU TRIODE— SHARP-CUTOFF PENTODE

9-PIN MINIATURE TYPE

With heater having controlled warm-up time

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC)	6.3	volts
Current	0.45 ± 6%	amp
Warm-up time (Average)	11	sec

Direct Interelectrode Capacitances:^o

Triode Unit:

Grid to plate	1.6	μf
Grid to cathode & pentode grid No.3 & internal shield, and heater . . .	1.9	μf
Plate to cathode & pentode grid No.3 & internal shield, and heater . . .	1.6	μf

Pentode Unit:

Grid No.1 to plate	0.025 max.	μf
Grid No.1 cathode, grid No.3 & triode cathode & internal shield, grid No.2, and heater	7	μf
Plate to cathode, grid No.3 & triode cathode & internal shield, grid No.2, and heater	2.4	μf
Pentode grid No.1 to triode plate . . .	0.03 max.	μf
Pentode plate to triode plate	0.07 max.	μf

Characteristics, Class A₁ Amplifier:

	Triode Unit	Pentode Unit	
Plate Supply Voltage	125	125	volts
Grid-No.2 Supply Voltage	-	125	volts
Grid-No.1 Voltage	-1	0	volts
Cathode Resistor	0	56	ohms
Amplification Factor	24	-	
Plate Resistance (Approx.)	4100	170000	ohms
Transconductance	5800	7800	μmhos
Plate Current	17	12	ma
Grid-No.2 Current	-	3.8	ma
Grid-No.1 Voltage (Approx.) for plate μa = 20	-12	-6	volts
Grid-No.1 Voltage (Approx.) for plate ma. = 1.6, and cathode resistor (ohms) = 0	-	-3	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	2-3/16"
Maximum Seated Length	1-15/16"

← Indicates a change.

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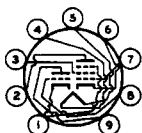


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Length, Base Seat to Bulb Top (Excluding tip) . . . 1-9/16" \pm 3/32"
 Diameter 0.750" to 0.875"
 Dimensional Outline See General Section
 Bulb T6-1/2
 Base Small-Button Noval 9-Pin (JEDEC No.E9-1)
 Basing Designation for BOTTOM VIEW 9GM

Pin 1 - Triode
 Cathode,
 Pentode
 Grid No.3,
 Internal
 Shield
 Pin 2 - Pentode
 Plate
 Pin 3 - Pentode
 Grid No.2



Pin 4 - Heater
 Pin 5 - Heater
 Pin 6 - Pentode
 Cathode
 Pin 7 - Pentode
 Grid No.1
 Pin 8 - Triode
 Grid
 Pin 9 - Triode
 Plate

AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

	Triode Unit	Pentode Unit	
PLATE VOLTAGE	330 max.	330 max.	volts
GRID-No.2 (SCREEN-GRID) SUPPLY VOLTAGE	-	330 max.	volts
GRID-No.2 VOLTAGE	-	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section	
GRID-No.1 (CONTROL-GRID) VOLTAGE:			
Positive-bias value	0 max.	0 max.	volts
GRID-No.2 INPUT:			
For grid-No.2 voltages up to 165 volts	-	0.55 max.	watt
For grid-No.2 voltages between 165 and 330 volts	-	See Grid-No.2 Input Rating Chart at front of Receiving Tube Section	
PLATE DISSIPATION	2.8 max.	2.3 max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode	200 max.	200 max.	volts
Heater positive with respect to cathode	200 [▲] max.	200 [▲] max.	volts

[○] Without external shield.

[▲] The dc component must not exceed 100 volts.

→ Indicates a change.

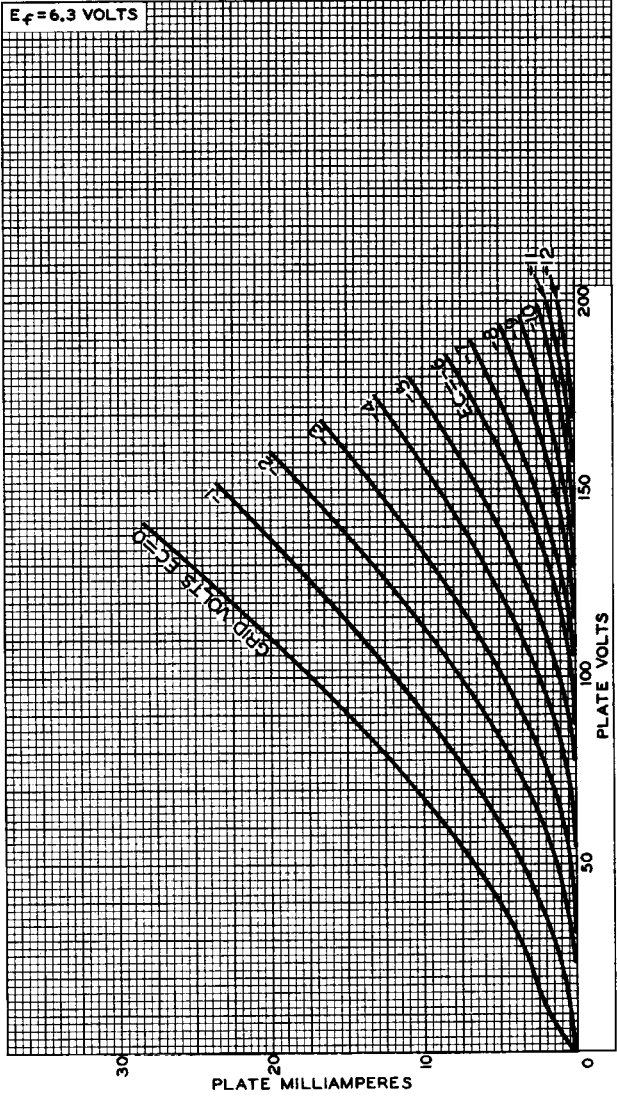


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AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

$E_f = 6.3$ VOLTS



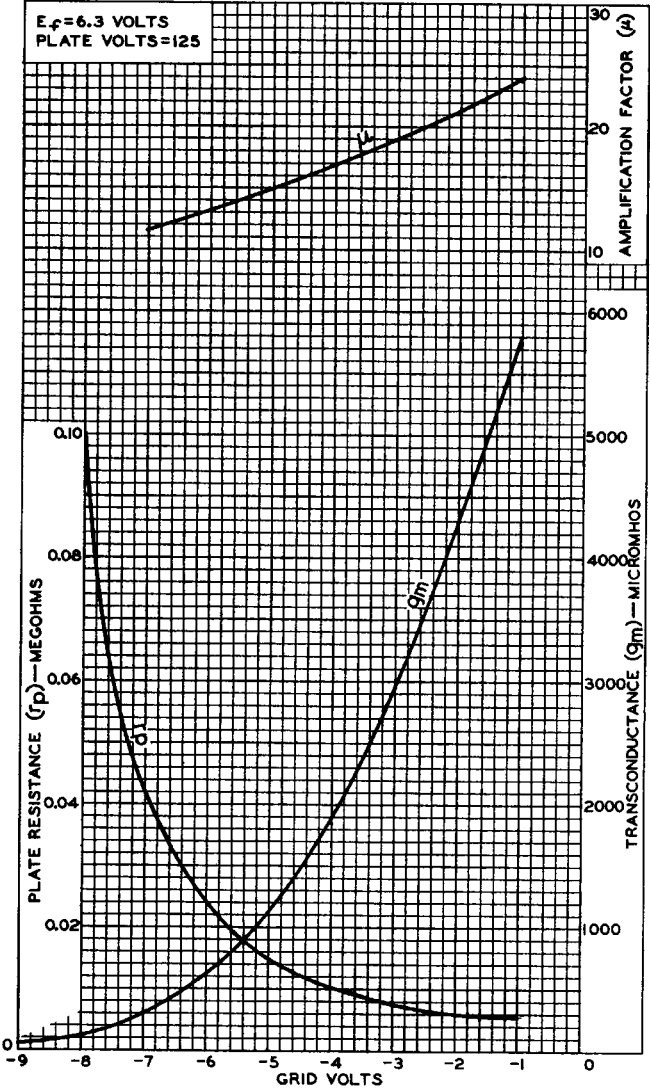
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AVERAGE CHARACTERISTICS TRIODE UNIT

$E_f = 6.3$ VOLTS
PLATE VOLTS = 125

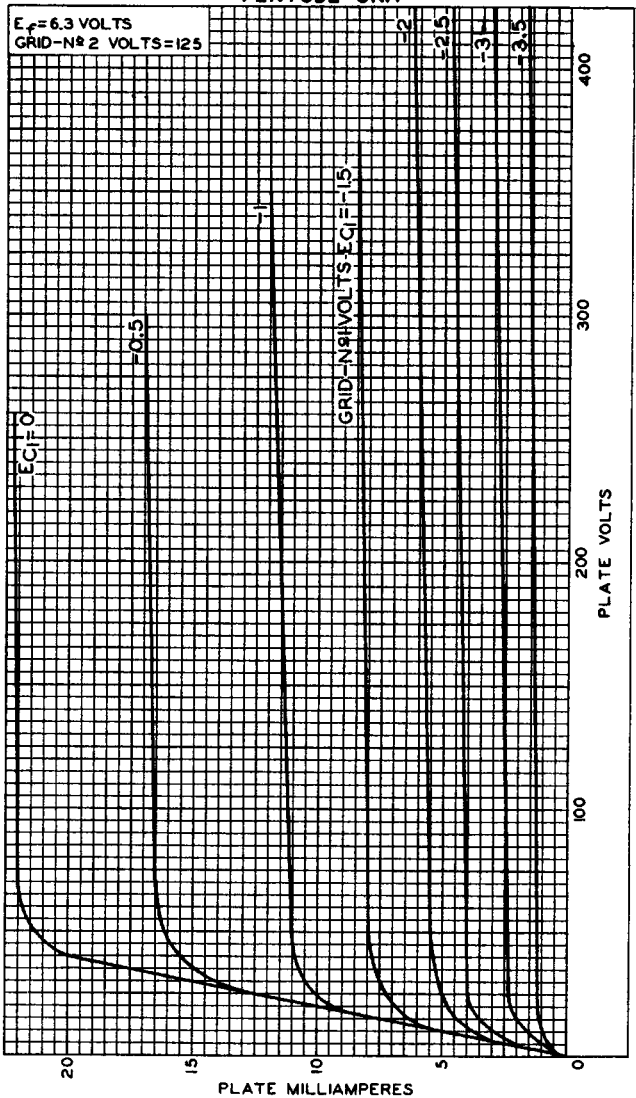




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AVERAGE PLATE CHARACTERISTICS PENTODE UNIT



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AVERAGE CHARACTERISTICS PENTODE UNIT

$E_f = 6.3$ VOLTS
PLATE VOLTS = 125
GRID-N#2 VOLTS = 125

