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SHARP-CUTOFF PENTODE

9-PIN MINIATURE TYPE

GENERAL DATA**Electrical:**

Heater, for Unipotential Cathodes:

Voltage 6.3 ac or dc volts

Current 0.15 amp

Direct Interelectrode Capacitances:⁰**Pentode Connection:**Grid No.1 to Plate. . . 0.15 max. μf ←Input 2.7 μf Output. 2.4 μf **Triode Connection** (Grids No.2 & No.3 connected to plate):Grid No.1 to Plate. . . 1.4 μf

Grid No.1 to Cathode &

Heater. 1.4 μf

Plate to Cathode &

Heater. 0.85 μf ⁰ With no external shield.**Mechanical:**

Mounting Position Any

Maximum Overall Length. 2-3/16"

Maximum Seated Length 1-15/16"

Length, Base Seat to Bulb Top (Excluding tip) 1-9/16" $\pm 3/32$ "

Maximum Diameter. 7/8"

Bulb. T-6-1/2

Base. Small-Button Noval 9-Pin (JETEC No.E9-1)

Basing Designation for BOTTOM VIEW 9AD

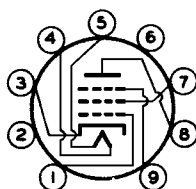
Pin 1-Grid No.1

Pin 2-No Connection

Pin 3-Cathode

Pin 4-Heater

Pin 5-Heater



Pin 6-No Connection

Pin 7-Grid No.2

Pin 8-Plate

Pin 9-Grid No.3

AMPLIFIER - Class A₁**Pentode Connection****Maximum Rating, Design-Center Values:**

PLATE VOLTAGE 300 max. volts

GRID-No.2 (SCREEN) VOLTAGE. 150 max. volts

GRID-No.2 SUPPLY VOLTAGE. 300 max. volts

GRID-No.2 INPUT 0.25 max. watt

PLATE DISSIPATION 1.25 max. watts

GRID-No.1 (CONTROL-GRID) VOLTAGE:

Negative Bias Value 50 max. volts

Positive Bias Value 0 max. volts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode . . . 90 max. volts

Heater positive with respect to cathode . . . 90 max. volts

← Indicates a change

JAN. 1, 1953

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Characteristics:

Plate Voltage.	250	volts
Grid No.3 (Suppressor)	Connected to cathode at socket	
Grid-No.2 Voltage.	100	volts
Grid-No.1 Voltage.	-3	volts
Plate Resistance (Approx.)	2	megohms
Transconductance	1000	μ mhos
Grid-No.1 Bias (Approx.) for plate current of 10 μ amp	-8	volts
→ Plate Current.	1.8	ma
Grid-No.2 Current.	0.4	ma

Maximum Circuit Values:

Grid-No.1-Circuit Resistance	2.2 max.	megohms
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AMPLIFIER - Class A₁

Triode Connection - Grids No.2 & No.3 Connected to Plate

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	250 max.	volts
TOTAL PLATE DISSIPATION.	1.5 max.	watts
GRID-NO.1 VOLTAGE		
Negative Bias Value.	50 max.	volts
Positive Bias Value.	0 max.	volts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	90 max.	volts
Heater positive with respect to cathode.	90 max.	volts

Characteristics:

Plate Voltage.	100	250	volts
Grid-No.1 Voltage.	-3	-8	volts
Amplification Factor	21	21	
Plate Resistance (Approx.)	17000	13700	ohms
Transconductance	1240	1530	μ mhos
Total Plate Current.	2.2	5.5	ma

Maximum Circuit Values:

Grid-No.1-Circuit Resistance	2.2 max.	megohms
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Typical Operation as Resistance-Coupled Amplifier:

*See RESISTANCE-COUPLED AMPLIFIER CHARTS
at front of Receiving Tube Section.*

→ indicates a change

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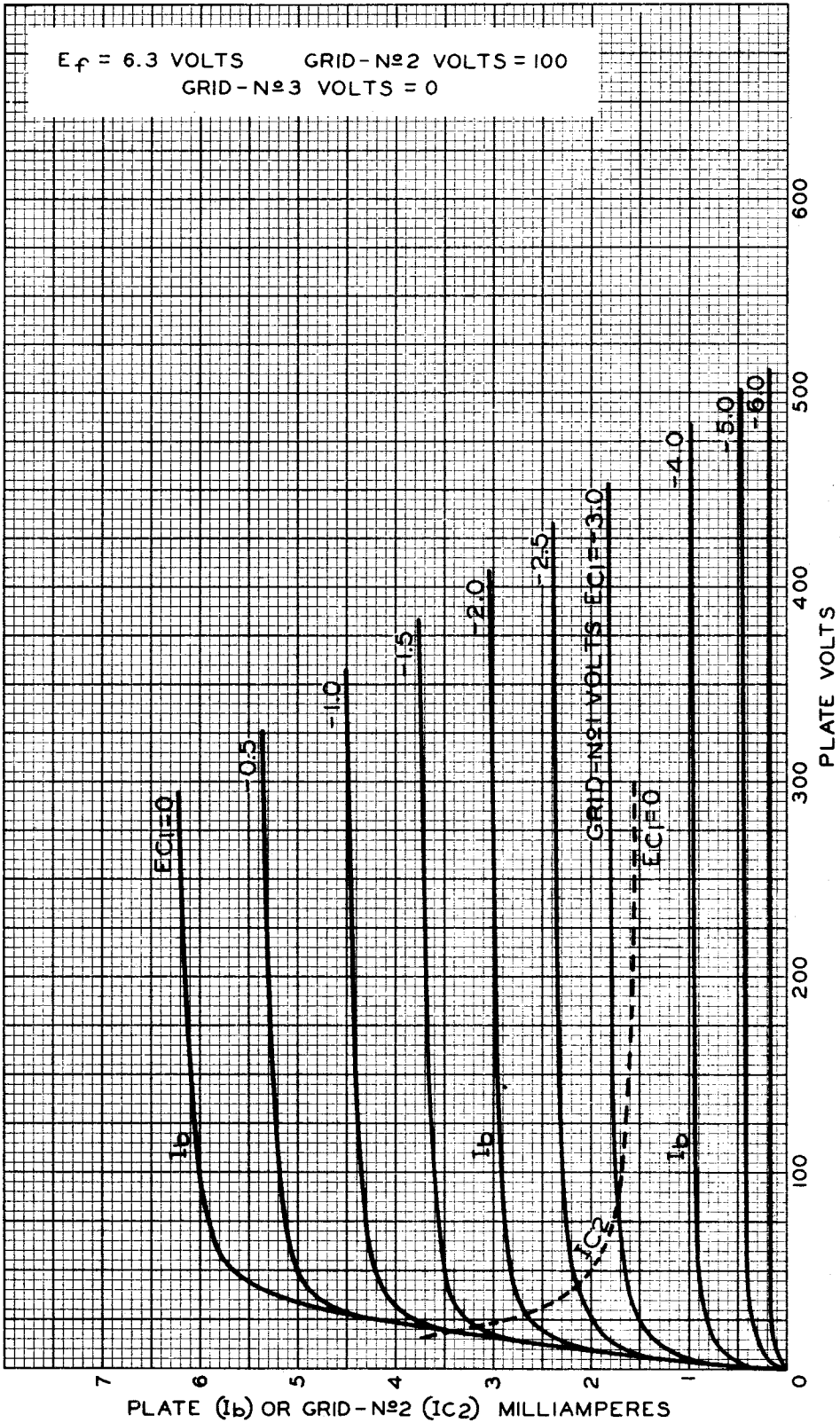
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AVERAGE PLATE CHARACTERISTICS



FEB. 1, 1950

TUBE DEPARTMENT

92CM - 7439

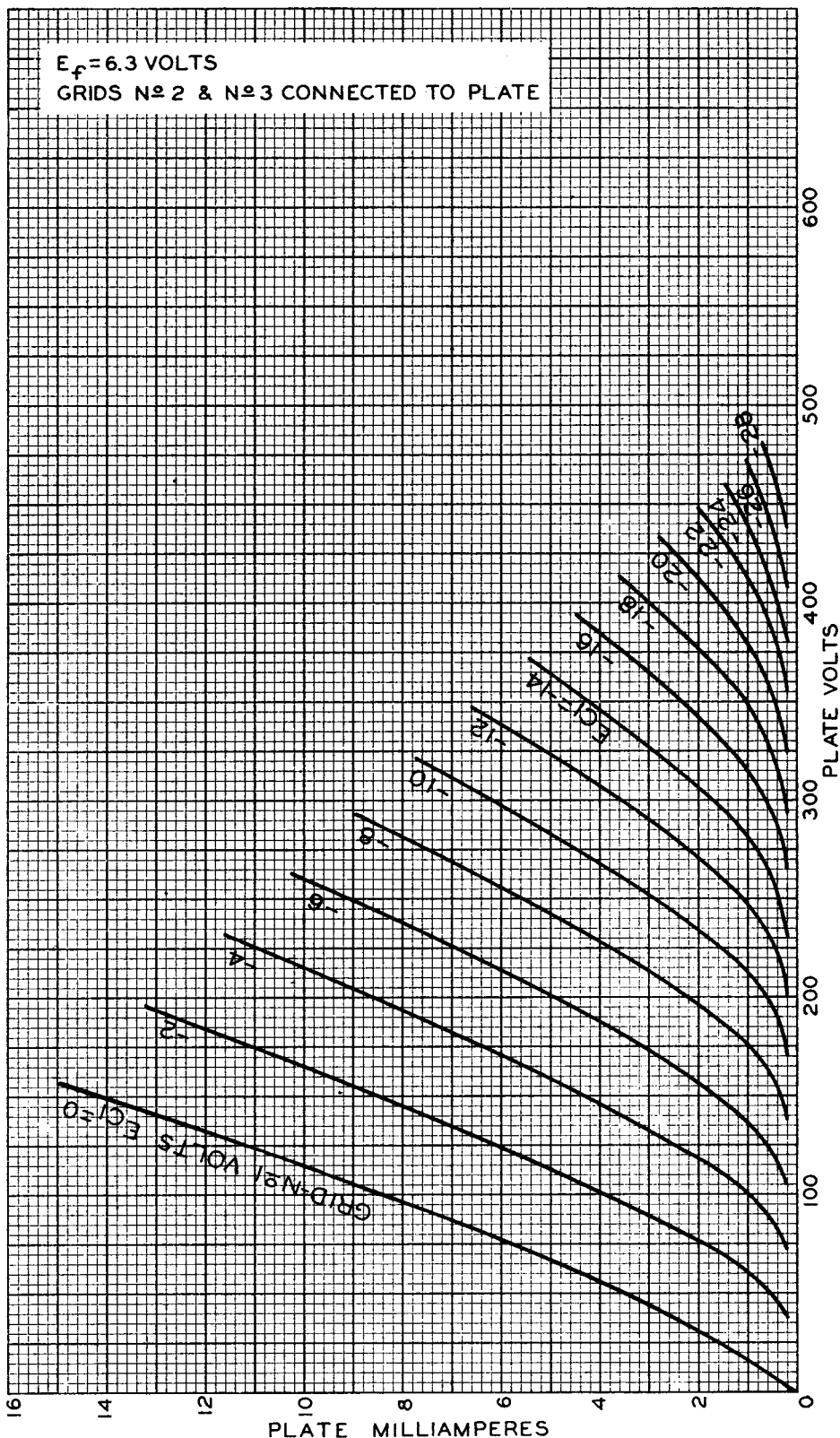
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AVERAGE PLATE CHARACTERISTICS TRIODE CONNECTION



FEB. 9, 1950

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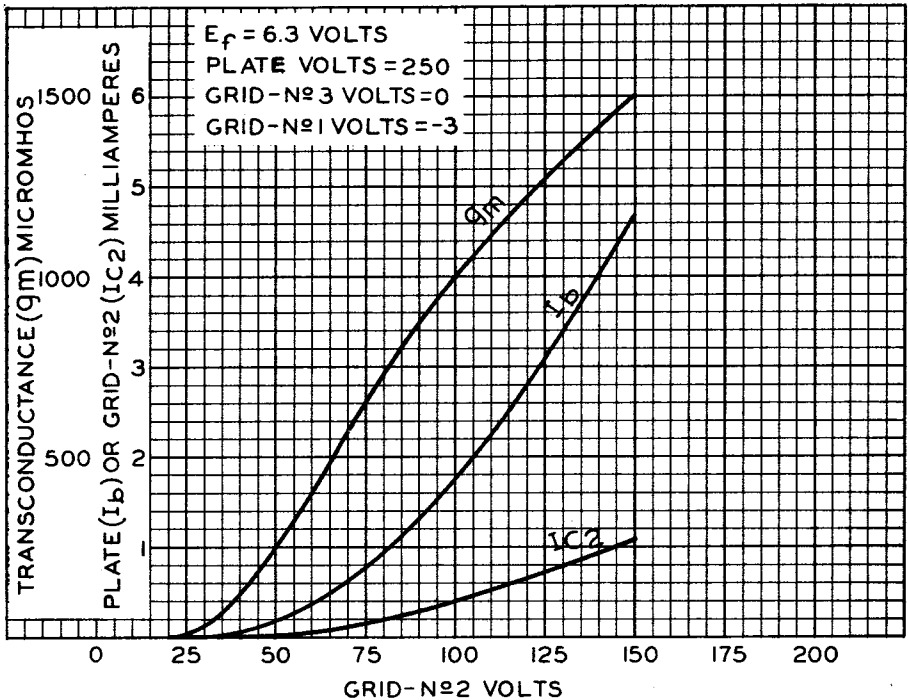
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AVERAGE CHARACTERISTICS



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