



2A3

2A3 POWER TRIODE

GENERAL DATA

Electrical:

Filament, Coated:

Voltage. 2.5 ac or dc volts

Current. 2.5 amp

Direct Interelectrode Capacitances (Approx.):*

Grid to Plate. 16.5 μf

Grid to Cathode. 7.5 μf

Plate to Cathode 5.5 μf

* With no external shield.

Mechanical:

Mounting Position. Any ←

Maximum Overall Length 5-3/8"

Maximum Seated Length. 4-3/4"

Maximum Diameter 2-1/16"

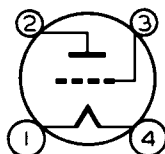
Bulb ST-16

Base Medium-Shell Small 4-Pin

Basing Designation for BOTTOM VIEW 4D

Pin 1 - Filament

Pin 2 - Plate



Pin 3 - Grid

Pin 4 - Filament

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE. 300 max. volts

PLATE DISSIPATION. 15 max. watts

Typical Operation and Characteristics:

Plate Voltage. 250 . . . volts

Grid Voltage#▲. -45 . . . volts

Amplification Factor 4.2

Plate Resistance 800 . . . ohms

Transconductance 5250 . . . μmhos

Plate Current. 60 . . . ma.

Load Resistance 2500 . . . ohms

Second Harmonic Distortion 5 . . . %

Power Output 3.5 . . . watts

Maximum Circuit Values:□

Grid-Circuit Resistance. . . { fixed bias 0.05 max. megohm
cathode bias 0.5 max. megohm

#,▲,□: See next page.

indicates a change.

2A3



2A3 POWER TRIODE

PUSH-PULL AMPLIFIER - Class AB₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	300 max.	volts
PLATE DISSIPATION.	15 max.	watts

Typical Operation:

Values are for 2 tubes

	Fixed Bias	Cathode Bias	
Plate Voltage.	300	300 •	volts
Grid Voltage*	-62	-	volts
Cathode-Bias Resistor.	-	780	ohms
→ Peak AF Grid-to-Grid Voltage	124	156	volts
→ Zero-Signal Plate Current.	80	80	ma.
→ Max.-Signal Plate Current.	147	100	ma.
Effective Load Resistance (plate to plate)	3000	5000	ohms
Total Harmonic Distortion.	2.5	5.0	%
Power Output	15	10	watts

Maximum Circuit Values:†

Grid-Circuit Resistance. . .	{ fixed bias 0.05 max. megohm cathode bias 0.5 max. megohm
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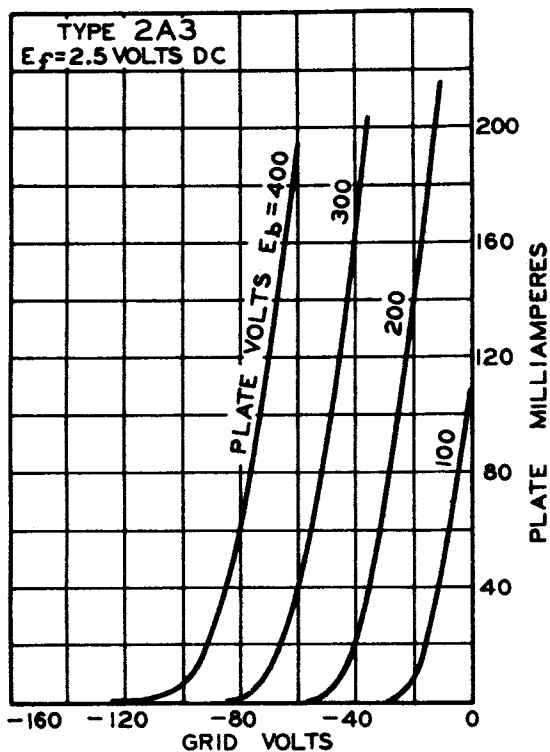
* Grid voltage referred to mid-point of ac-operated filament.

† When a single 2A3 is operated cathode-biased, the cathode-biasing resistor value should be 750 ohms.

□ The type of coupling used should not introduce too much resistance in the grid circuit. Transformer or impedance-coupling devices are recommended.

• For zero-signal conditions.

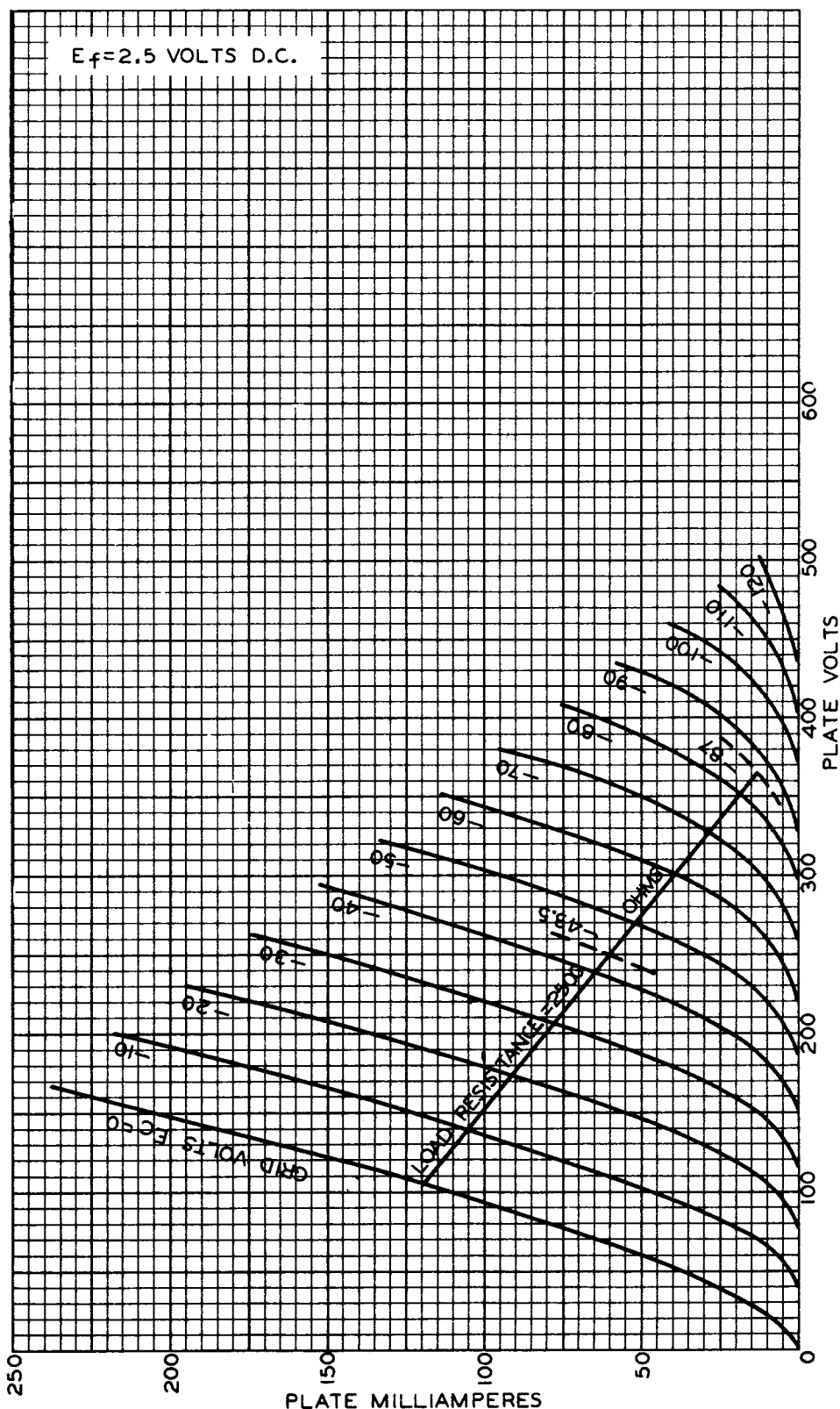
AVERAGE CHARACTERISTICS



→ Indicates a change.

92CM-53281

AVERAGE PLATE CHARACTERISTICS

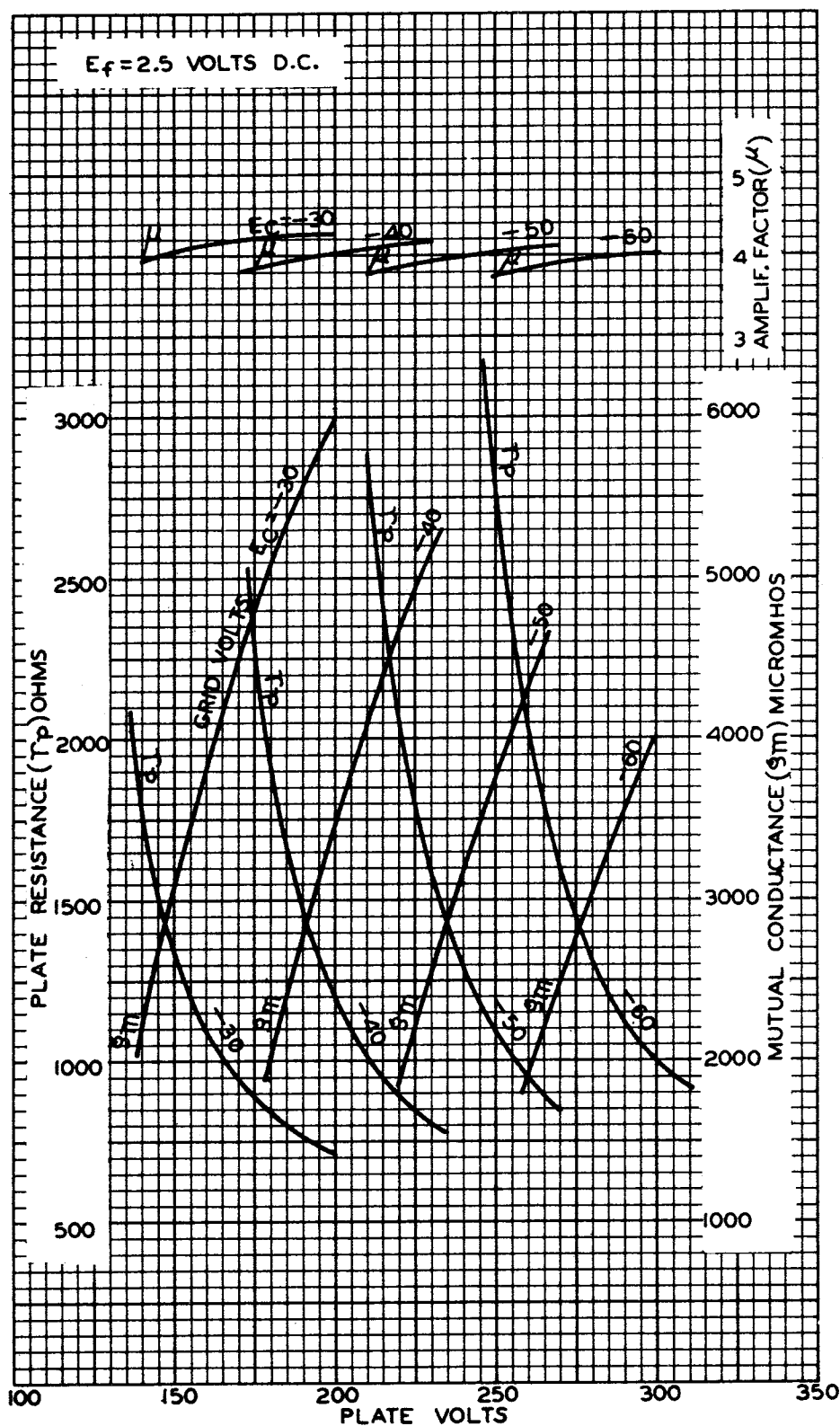


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RCA **Cunningham** **Radiotron** **RADIO TUBES**

RCA-2A3

AVERAGE CHARACTERISTICS



JUNE 12, 1933

RCA RADIOTRON DIVISION
RCA MANUFACTURING COMPANY, INC.

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