



2A3

POWER TRIODE

2A3

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 μ f

Grid to Cathode. 7.5 μ f

Plate to Cathode 5.5 μ f

* 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"

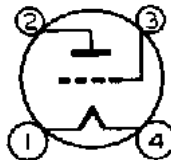
Bulb ST-16

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 μ hos

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



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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

	<u>Fixed Bias</u>	<u>Cathode Bias</u>	
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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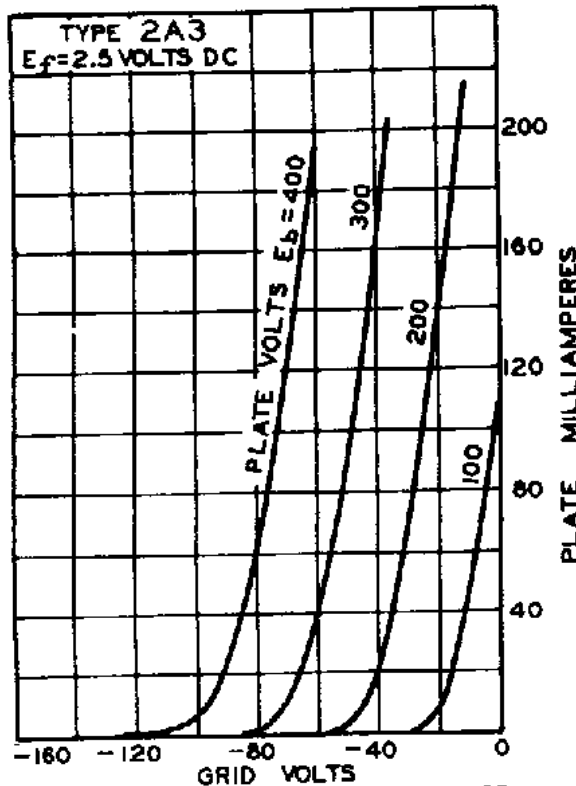
[#] Grid voltage referred to mid-point of ac-operated filament.

[•] 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.

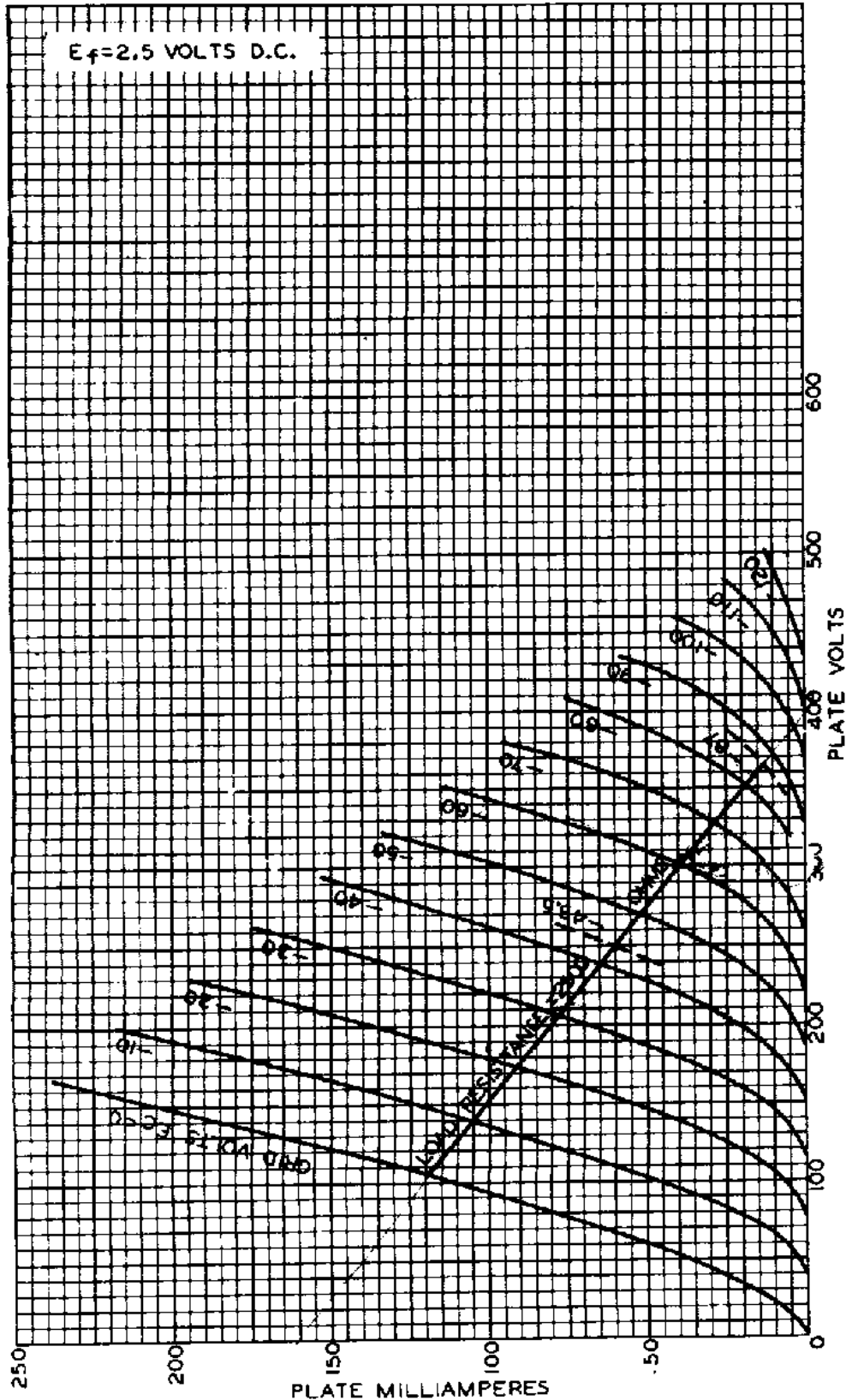
AVERAGE CHARACTERISTICS



→ Indicates a change.

92CM-53281

AVERAGE PLATE CHARACTERISTICS



2A3

Cunningham
Radiotron
RCA-2A3

AVERAGE CHARACTERISTICS

