

obsolete
10/64 **12AX7**

High-Mu Twin Triode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

	<i>Series</i>	<i>Parallel</i>	
Voltage (AC or DC)	12.6	$6.3 \pm 10\%$	volts
Current	$0.15 \pm 6\%$	0.3	amp

Direct Interelectrode Capacitances (Approx.):

	<i>Without External Shield</i>	<i>With External Shield^a</i>	
Grid to plate (Each unit)	1.7	1.7	μf
Grid to cathode and heater (Each unit)	1.6	1.8	μf
Plate to cathode and heater:			
Unit No.1	0.46	1.9	μf
Unit No.2	0.34	1.9	μf

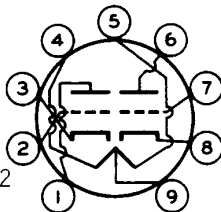
Characteristics, Class A₁ Amplifier (Each Unit):

Plate Voltage	100	250	volts
Grid Voltage	-1	-2	volts
Amplification Factor	100	100	
Plate Resistance (Approx.)	80000	62500	ohms
Transconductance	1250	1600	μmhos
Plate Current	0.5	1.2	ma

Mechanical:

Operating Position	Any
Maximum Overall Length	2-3/16"
Maximum Seated Length	1-15/16"
Length, Base Seat to Bulb Top (Excluding tip)	$1-9/16" \pm 3/32"$
Diameter	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW9A

Pin 1 - Plate of Unit No.2	(1)	Pin 6 - Plate of Unit No.1	(6)
Pin 2 - Grid of Unit No.2	(2)	Pin 7 - Grid of Unit No.1	(7)
Pin 3 - Cathode of Unit No.2	(3)	Pin 8 - Cathode of Unit No.1	(8)
Pins 4 & 9 - Heater of Unit No.2	(4) (9)	Pin 9 - Heater Tap	
Pins 5 & 8 - Heater of Unit No.1	(5) (8)		



← Indicates a change.



RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA
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AMPLIFIER — Class A₁

Values are for Each Unit

→ **Maximum Ratings, Design-Maximum Values:**

PLATE VOLTAGE.	330	max.	volts
GRID VOLTAGE:			
Negative-bias value.	55	max.	volts
Positive-bias value.	0	max.	volts
PLATE DISSIPATION.	1.2	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode. .	200	max.	volts
Heater positive with respect to cathode. .	200 ^b	max.	volts

Typical Operation as Resistance-Coupled Amplifier:

See *RESISTANCE-COUPLED-AMPLIFIER CHART No.25*
at front of this Section

^a With external shield JEDEC No.315 connected to cathode of unit under test.

^b The dc component must not exceed 100 volts.

→ Indicates a change.



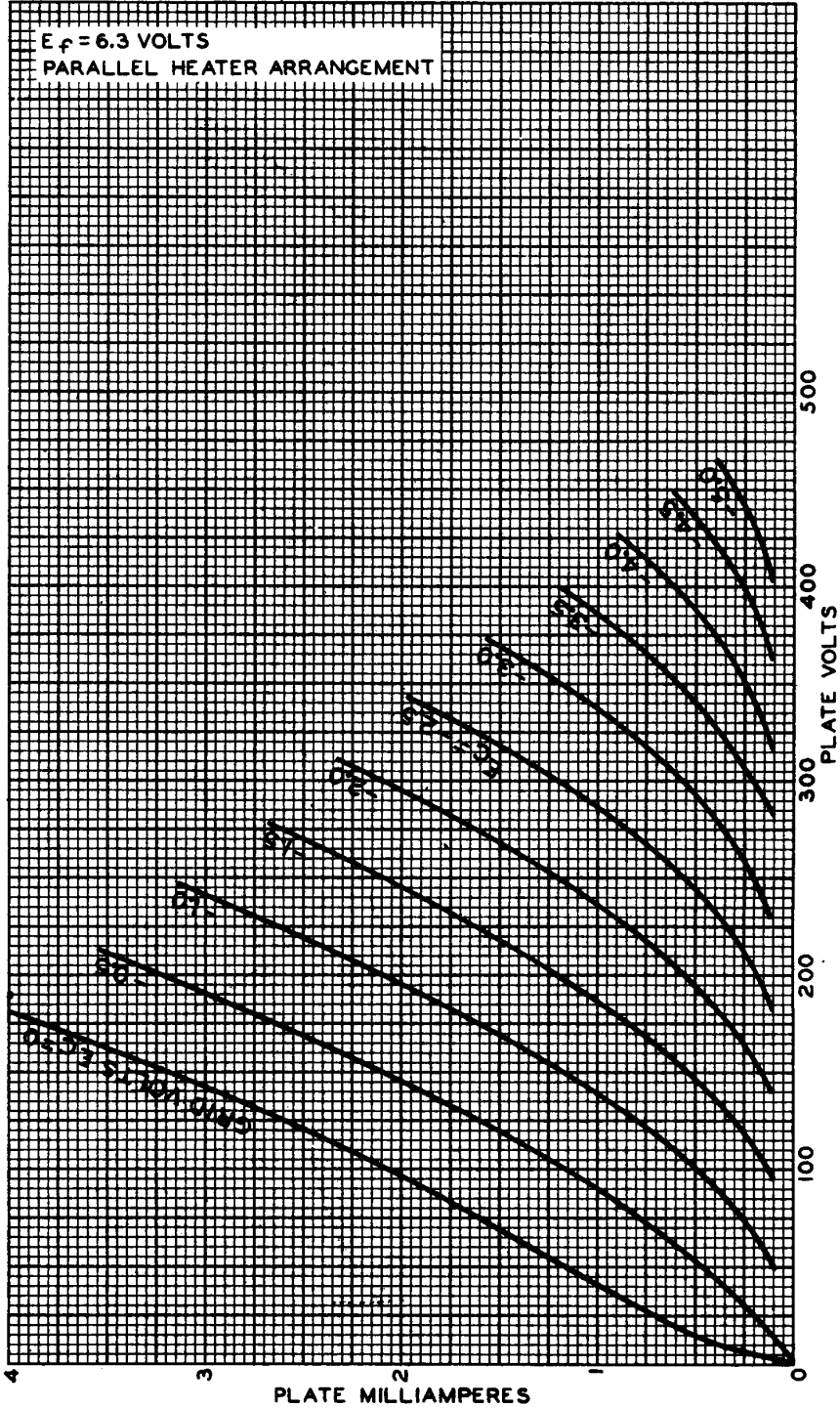


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AVERAGE PLATE CHARACTERISTICS FOR EACH UNIT



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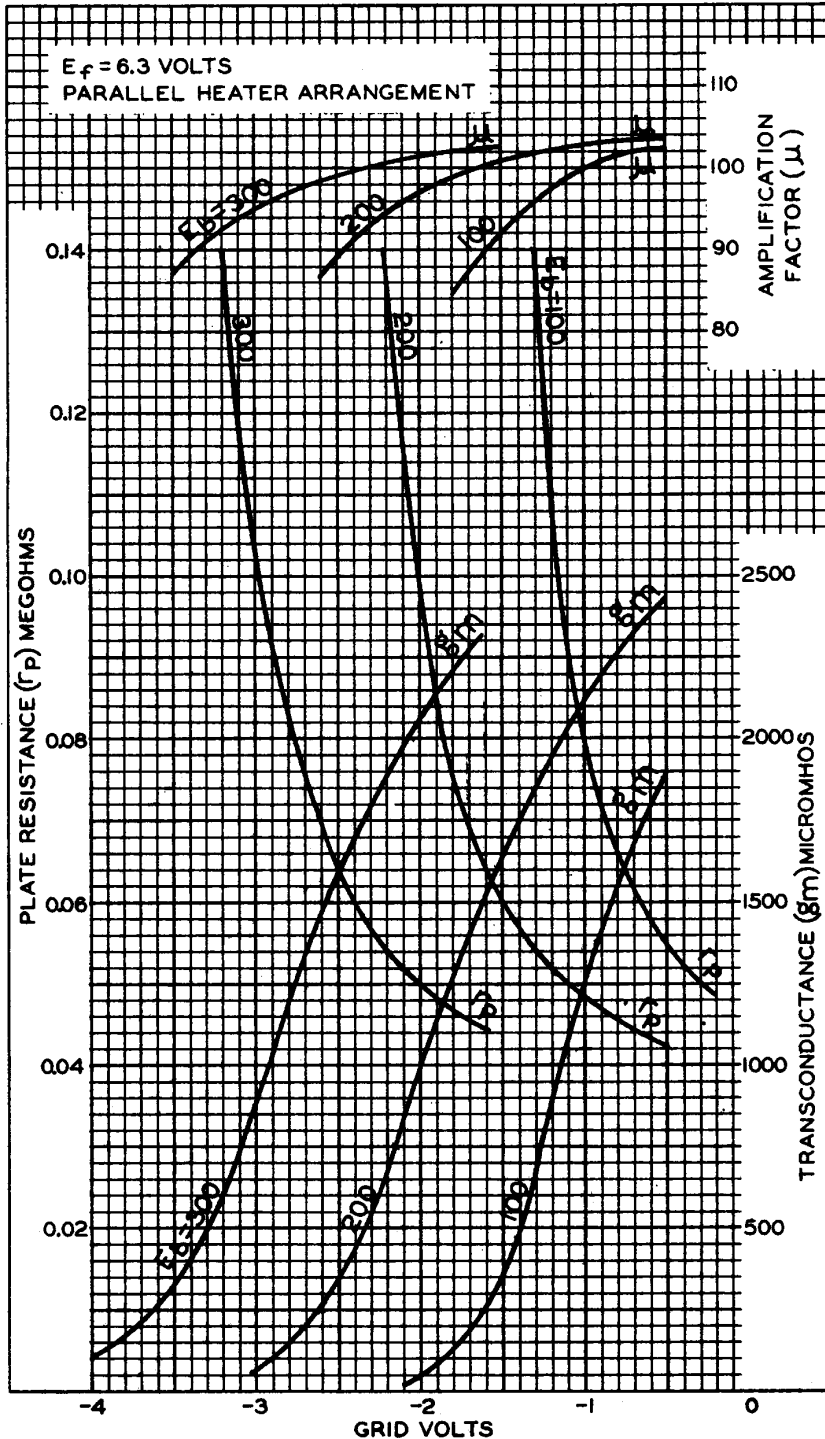
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AVERAGE CHARACTERISTICS
FOR EACH UNIT



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