

6EU7

High-Mu Twin Triode

9-PIN MINIATURE TYPE

For High-Fidelity Audio-Amplifier Applications Critical as to Noise and Hum

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:		
Voltage (AC or DC)	6.3 ± 10%	volts
Current at 6.3 volts	0.3	amp
Direct Interelectrode Capacitances (Each Unit, Approx.): [▲]		
Grid to plate	1.5	μf
Grid to cathode and heater	1.6	μf
Plate to cathode and heater	0.2	μf

Equivalent Noise and Hum Voltage (Referenced to Grid, Each Unit):

Average Value (RMS)	1.8	μvolts
Measured in "true rms" units under the following conditions: Heater volts (AC)= 6.3; center-tap of heater transformer connected to ground; plate supply volts (DC)= 250; plate load resistor (megohms)= 0.1; cathode resistor (ohms)= 2700; cathode bypass capacitor (μf)= 100; grid resistor (ohms)= 0; amplifier frequency range 25 to 10000 cps.		

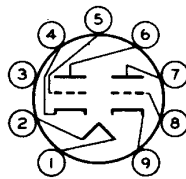
Characteristics, Class A₁ Amplifier (Each Unit):

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" ± 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 VIEW	9LS

- Pin 1 - Heater
- Pin 2 - Heater
- Pin 3 - No Connection
- Pin 4 - Cathode of Unit No. 2
- Pin 5 - Grid of Unit No. 2



- Pin 6 - Plate of Unit No. 2
- Pin 7 - Plate of Unit No. 1
- Pin 8 - Grid of Unit No. 1
- Pin 9 - Cathode of Unit No. 1



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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 [▲]	max.	volts

Typical Operation as Resistance-Coupled Amplifier:

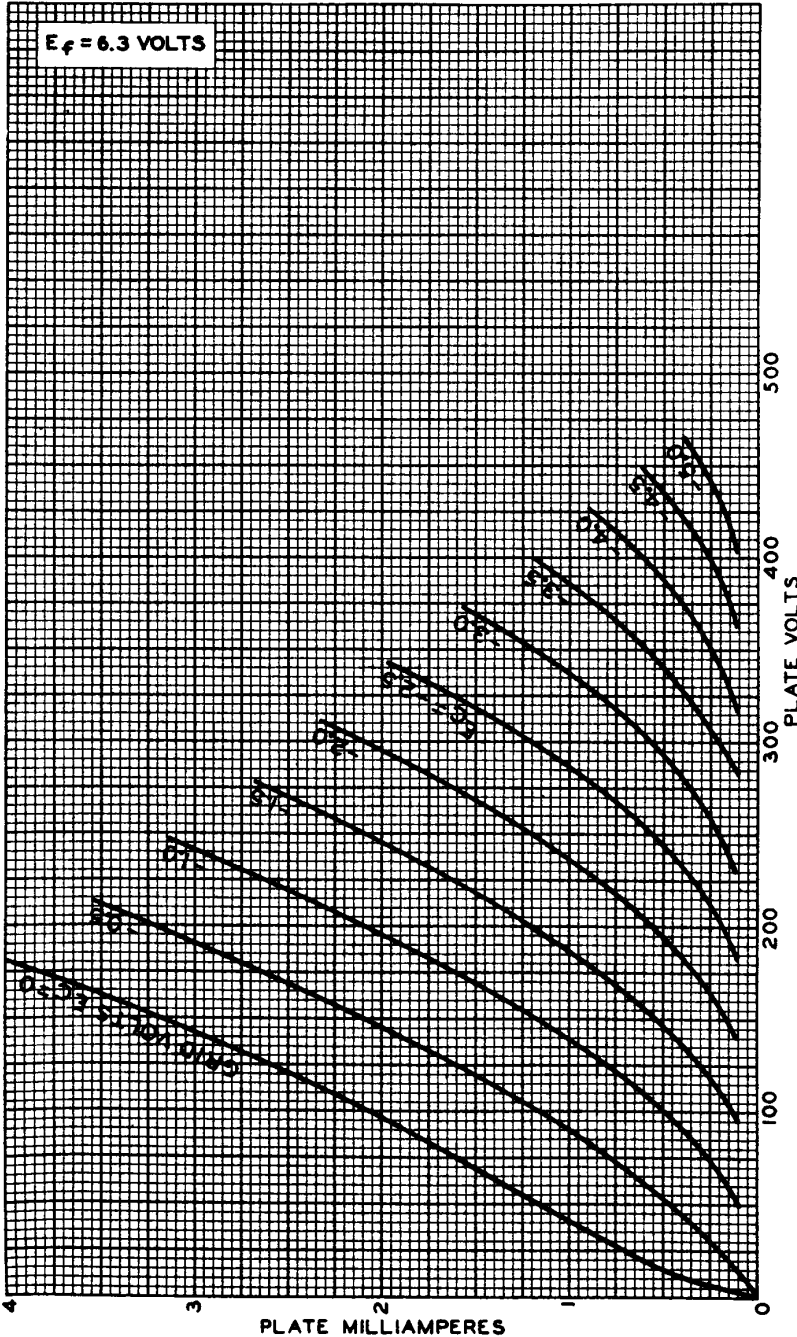
*See RESISTANCE-COUPLED-AMPLIFIER CHART No. 25
at front of this Section*

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



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AVERAGE PLATE CHARACTERISTICS Each Unit



92CM-10470

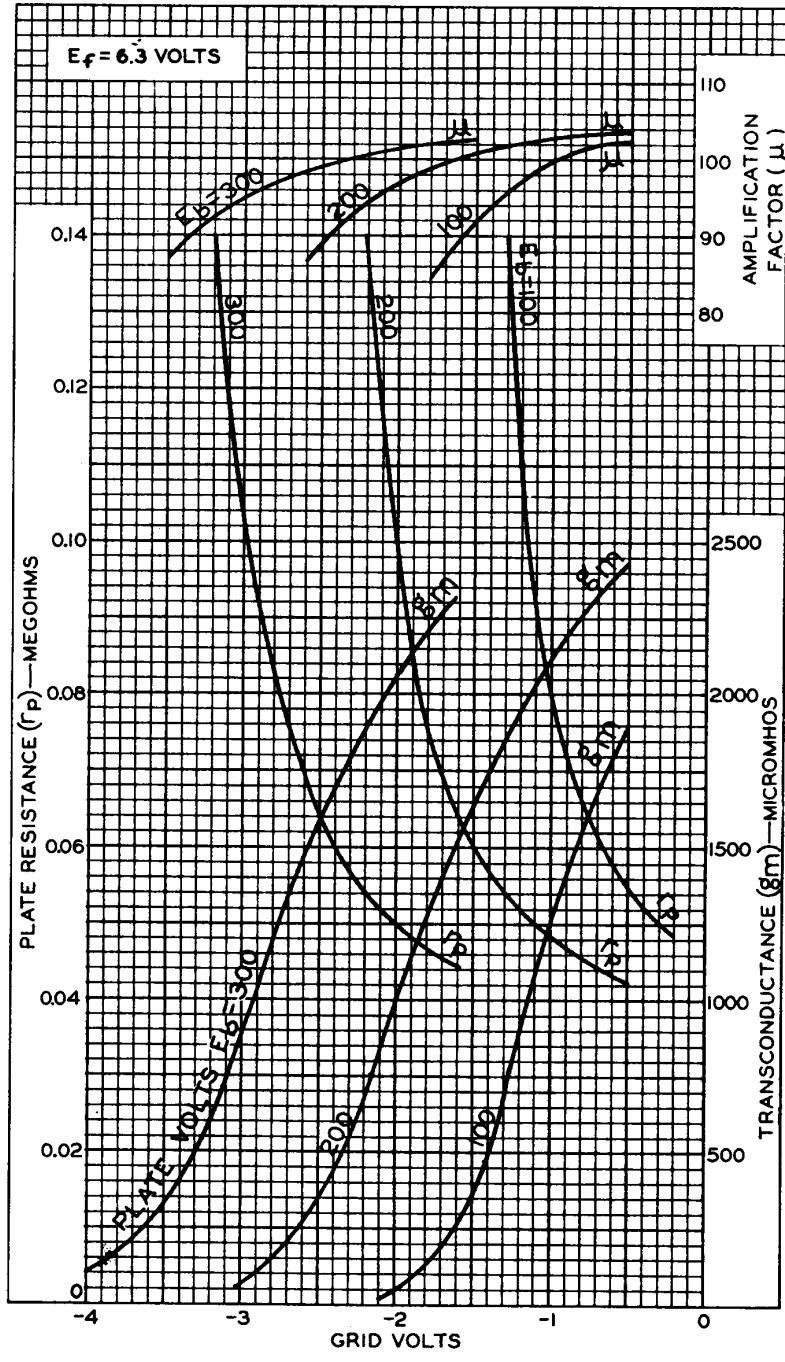


RADIO CORPORATION OF AMERICA
Electron Tube Division
Harrison, N. J.

DATA 2
8-60

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AVERAGE CHARACTERISTICS Each Unit



92CM-10471

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