

20E27

High-Mu Twin Triode

9-PIN MINIATURE TYPE

For High-Gain, Resistance-Coupled, Low-Level Audio-Amplifiers Operating at Low-Signal Levels, such as Preamplifiers for Low-Cost Stereophonic Phonographs

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC)	20	volts
Current	0.1 ± 6%	amp

Direct Interelectrode Capacitances (Approx.):^a

	Unit No. 1	Unit No. 2	
Grid to plate	1.5	1.5	μf
Grid to cathode and heater. . .	1.6	1.6	μf
Plate to cathode and heater . .	0.2	0.3	μf

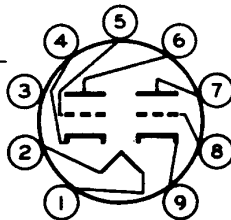
Characteristics, Class A₁ Amplifier (Each Unit):

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" ± 3/32"
 Diameter. 0.750" to 0.875"
 Dimensional Outline See *General Section*
 Bulb. T6-1/2
 Base. Small-Button Noval 9-Pin (JEDEC No. E9-1)
 Basing Designation for BOTTOM VIEW. 9PG ←

Pin 1 - Heater	Pin 6 - Plate of Unit No. 2
Pin 2 - Heater	Pin 7 - Plate of Unit No. 1
Pin 3 - Internal Connection—Do Not Use	Pin 8 - Grid of Unit No. 1
Pin 4 - Cathode of Unit No. 2	Pin 9 - Cathode of Unit No. 1
Pin 5 - Grid of Unit No. 2	



AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE. 330 max. volts

← Indicates a change.



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DATA 1
 5-61

20EZ7

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

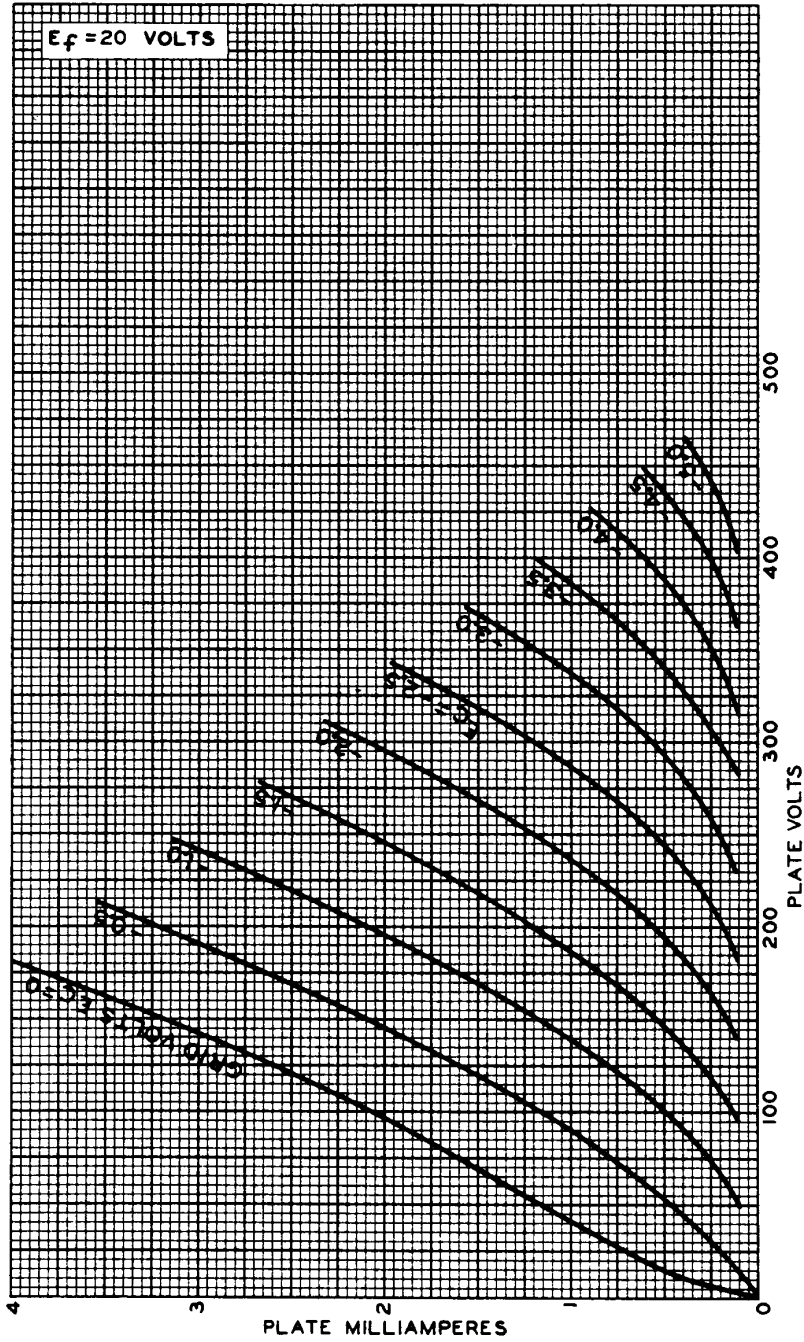
^a Without external shield.

^b The dc component must not exceed 100 volts.



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AVERAGE PLATE CHARACTERISTICS Each Unit



92CM-10804

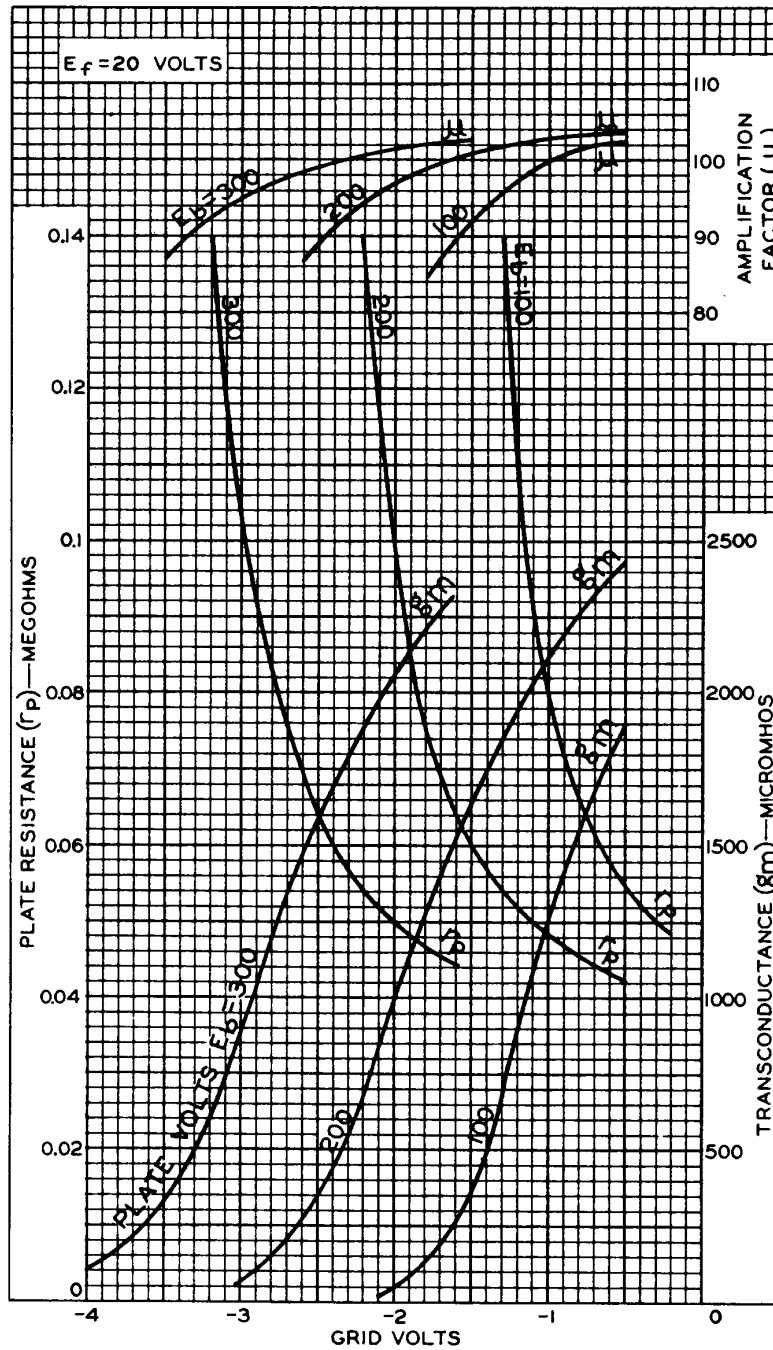


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DATA 2
10-60

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AVERAGE CHARACTERISTICS Each Unit



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