

Twin Diode—High-Mu Triode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC) 14 $\pm$ 10% volts

Current at 14 volts 0.15 amp

Direct Interelectrode Capacitances:[▲]

Triode Unit:

Grid to plate 1.8 μ f

Grid to cathode and heater 1.6 μ f

Plate to cathode and heater 0.24 μ f

Diode Units:

Diode-No.1 plate to triode grid 0.09 max. μ f

Diode-No.2 plate to triode grid 0.07 max. μ f

Either diode cathode to all other tube electrodes 6.5 μ f

Diode plate to cathode and heater (Each unit) 2.4 μ f

Characteristics, Class A₁ Amplifier (Triode Unit):

Plate Voltage 250 volts

Grid Voltage -3 volts

Amplification Factor 72

Plate Resistance (Approx.) 72000 ohms

Transconductance 1000 μ mhos

Plate Current 0.7 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 *General Section*

Bulb T6-1/2

Base Small-Button Noval 9-Pin (JEDEC No. E9-1)

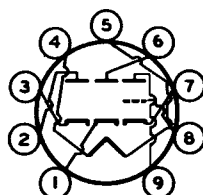
Basing Designation for BOTTOM VIEW 9KR

Pin 1—Diode-No.2
Cathode

Pin 2—Diode-No.1
Plate

Pin 3—Diode-No.1
Cathode

Pin 4—Heater



Pin 5—Heater

Pin 6—Diode-No.2
Plate

Pin 7—Triode Cathode

Pin 8—Triode Grid

Pin 9—Triode Plate

TRIODE UNIT — AMPLIFIER — Class A₁

Maximum Ratings, Design-Maximum Values:

PLATE VOLTAGE 330 max. volts



14GT8

GRID VOLTAGE:

Positive-bias value. 0 max. volts
PLATE DISSIPATION. 1.1 max. watts

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 200 max. volts
Heater positive with respect to cathode. . 200[●] max. volts

DIODE UNITS — Two

Values are for Each Unit

Maximum Ratings, Design-Maximum Values:

PLATE CURRENT. 5 max. ma

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. . 200 max. volts
Heater positive with respect to cathode. . 200[●] max. volts

Characteristics, Instantaneous Test Condition:

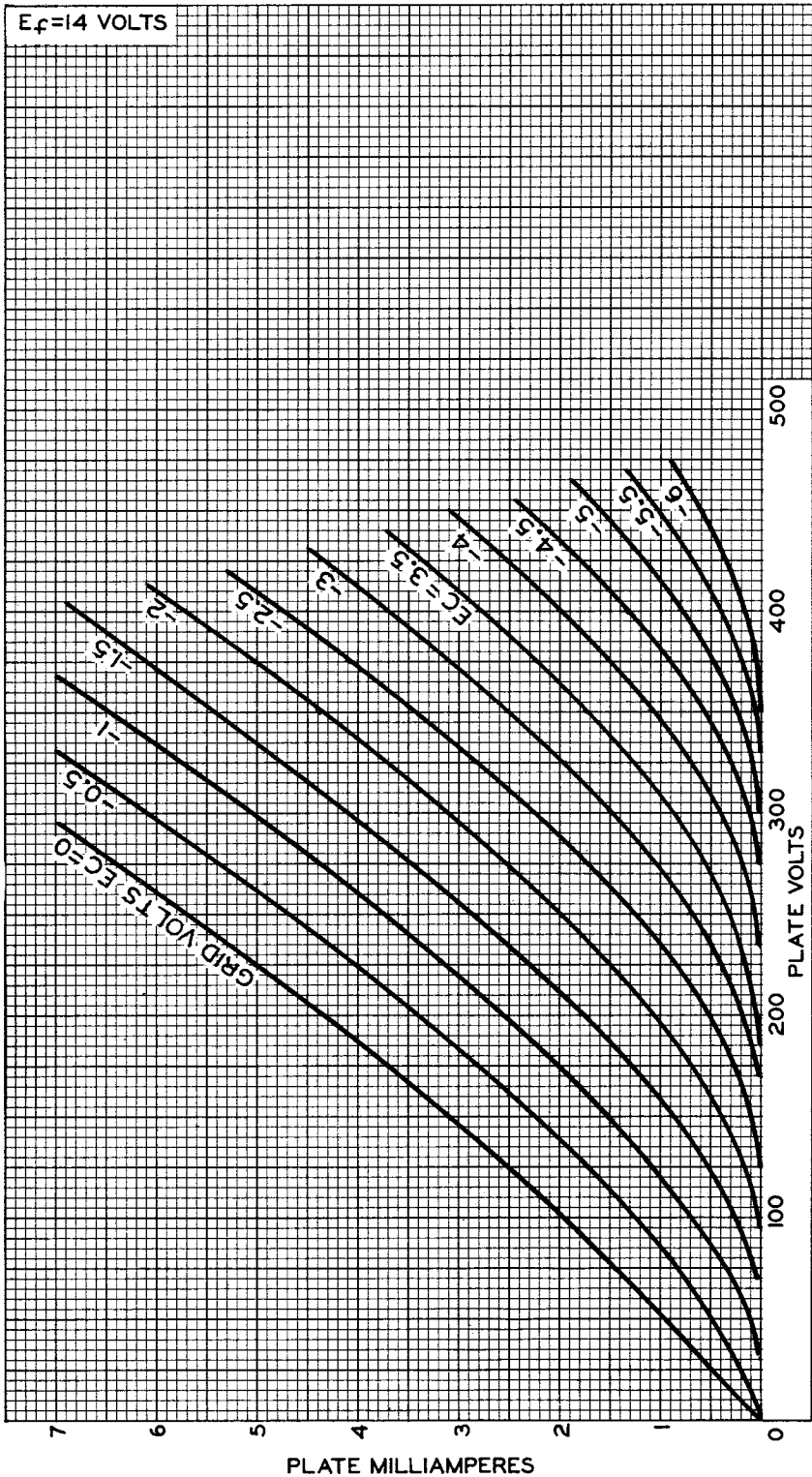
Plate Current for plate volts = 5. 18 ma

[▲] Without external shield.

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



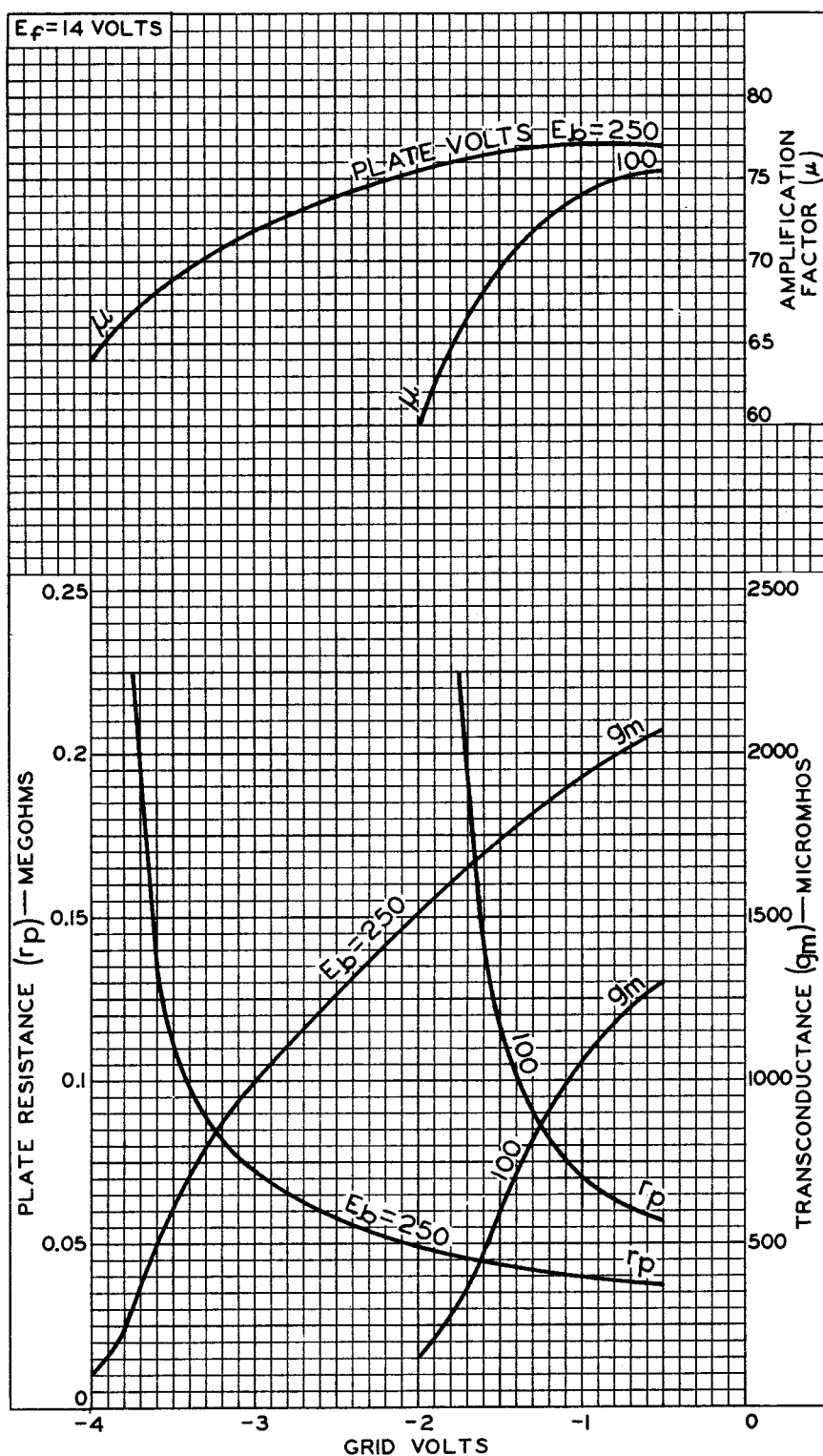
AVERAGE PLATE CHARACTERISTICS Triode Unit



92CM-10835



AVERAGE CHARACTERISTICS Triode Unit



92CM-10838