



6T8

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TRIPLE DIODE—HIGH-MU TRIODE

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage 6.3 ac or dc volts

Current 0.45 amp

Direct Interelectrode Capacitances:⁰

Triode unit:

Grid to plate 1.8 μf Grid to cathode & internal shield
(pin 7), and heater 1.6 μf Plate to cathode & internal shield
(pin 7), and heater 1.1 μf Diode-No.1 plate to cathode & internal
shield (pin 7), and heater 3.8 μf Diode-No.2 plate to cathode & internal
shield (pin 3), and heater 4.5 μf Diode-No.3 plate to cathode & internal
shield (pin 7), and heater 3.8 μf Diode-No.2 cathode & internal shield
(pin 3) to all other electrodes 8.5 μf Triode grid to any diode plate 0.035 max. μf Characteristics, Class A₁ Amplifier (Triode Unit):

Plate Voltage 100 250 volts

Grid Voltage -1 -3 volts

Amplification Factor 70 70

Plate Resistance (Approx.) 54000 58000 ohms

Transconductance 1300 1200 μmhos

Plate Current 0.8 1 ma

Mechanical:

Mounting 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"

Maximum Diameter 7/8"

Dimensional Outline See General Section

Bulb T-6-1/2

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

Basing Designation for BOTTOM VIEW 9E

Pin 1 - Diode-No.3
PlatePin 2 - Diode-No.2
PlatePin 3 - Diode-No.2
Cathode,
Internal
Shield

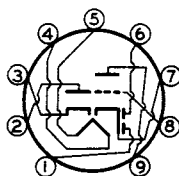
Pin 4 - Heater

Pin 5 - Heater

Pin 6 - Diode-No.1
PlatePin 7 - Cathode of
Triode &
Diodes No.1
& No.3,
Internal
Shield

Pin 8 - Triode Grid

Pin 9 - Triode Plate

⁰ Without external shield.

← Indicates a change.

6T8



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TRIODE UNIT — AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

→ PLATE VOLTAGE.	300 max.	volts
→ GRID VOLTAGE:		
Positive bias value.	0 max.	volts
PLATE DISSIPATION.	1 max.	watt
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	90 max.	volts
Heater positive with respect to cathode.	90 max.	volts

Typical Operation as Resistance-Coupled Amplifier:

See *RESISTANCE-COUPLED AMPLIFIER CHART No.7*
at front of this Section

DIODE UNITS - Three

Maximum Ratings, Design-Center Values:

→ PLATE CURRENT (For each diode)	5 max.	ma
→ PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	90 max.	volts
Heater positive with respect to cathode.	90 max.	volts

Diode Considerations:

Diode No.1, diode No.3, and the triode have a common cathode, and diode No.2 has a separate cathode. Diode No.2 (pins 2 & 3) and diode No.3 (pins 1 & 7) are recommended for use in FM detector applications, while diode No.1 (pins 6 & 7) is recommended for use as an AM detector.

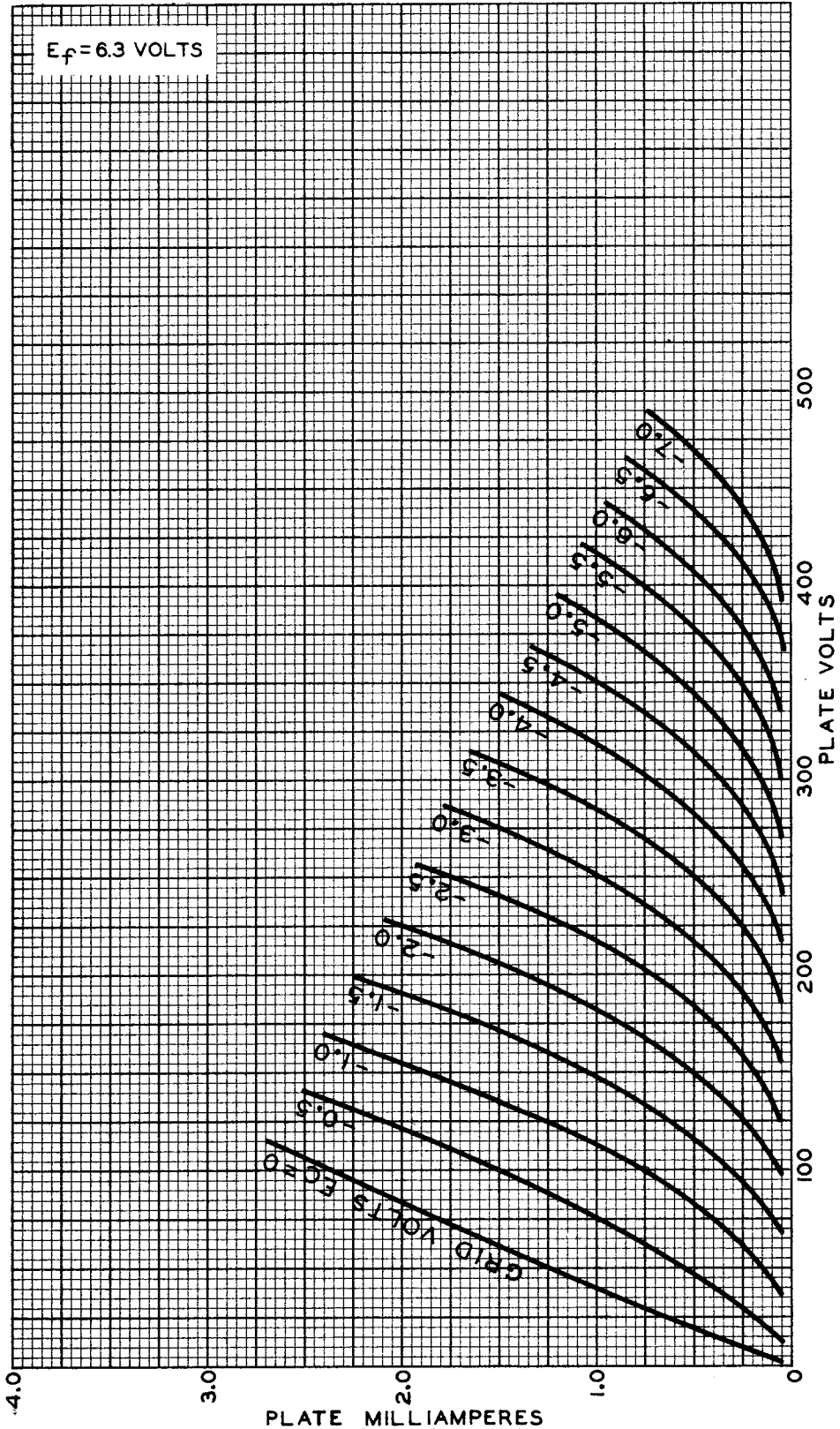
→ Indicates a change.



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AVERAGE PLATE CHARACTERISTICS TRIODE UNIT

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TUBE DEPARTMENT
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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