



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:^o

Triode unit:

Grid to plate	1.8	$\mu\mu\text{f}$
Grid to cathode & internal shield (pin 7), and heater	1.6	$\mu\mu\text{f}$
Plate to cathode & internal shield (pin 7), and heater	1.1	$\mu\mu\text{f}$
Diode-No.1 plate to cathode & internal shield (pin 7), and heater	3.8	$\mu\mu\text{f}$
Diode-No.2 plate to cathode & internal shield (pin 3), and heater	4.5	$\mu\mu\text{f}$
Diode-No.3 plate to cathode & internal shield (pin 7), and heater	3.8	$\mu\mu\text{f}$
Diode-No.2 cathode & internal shield (pin 3) to all other electrodes	8.5	$\mu\mu\text{f}$
Triode grid to any diode plate	0.035 max.	$\mu\mu\text{f}$

Characteristics, Class A₁ Amplifier (Triode Unit):

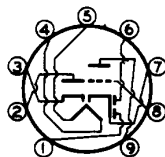
Plate Voltage	100	250	volts
Grid Voltage	-1	-3	volts
Amplification Factor	70	70	
Plate Resistance (Approx.)	54000	58000	ohms
Transconductance	1300	1200	μmhos
Plate Current	0.8	1	ma

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 Plate	Pin 6 - Diode-No.1 Plate
Pin 2 - Diode-No.2 Plate	Pin 7 - Cathode of Triode & Diodes No.1 & No.3, Internal Shield
Pin 3 - Diode-No.2 Cathode, Internal Shield	Pin 8 - Triode Grid
Pin 4 - Heater	Pin 9 - Triode Plate
Pin 5 - Heater	



^o Without external shield.

← Indicates a change.

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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.

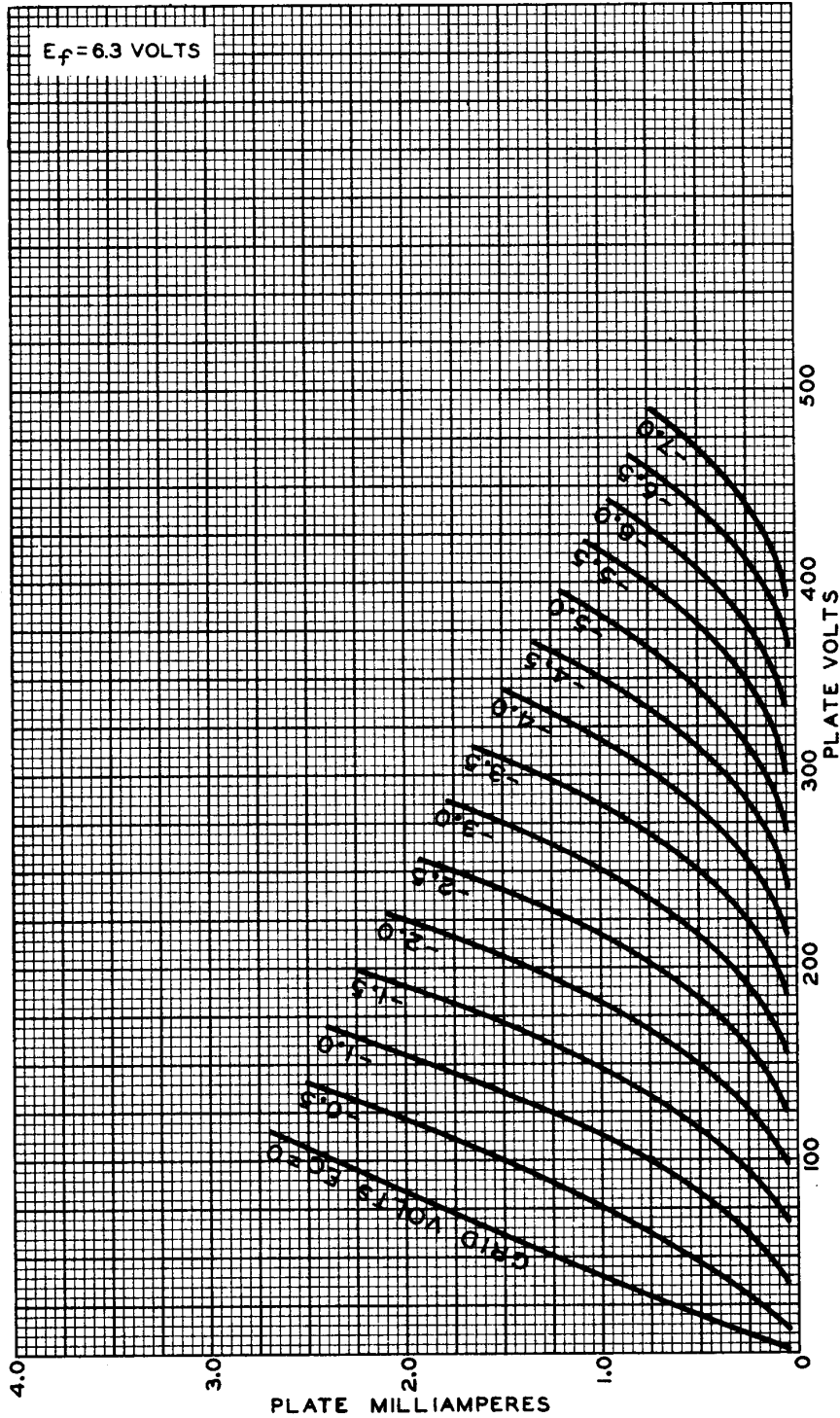
→ Indicates a change.



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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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