

Twin Diode—High-Mu Triode

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC)	6.3 $\pm$ 10%	volts
Current at 6.3 volts.	0.45	amp

Direct Interelectrode Capacitances
(Approx.):^a

Triode Unit:

Grid to plate	1.8	$\mu\mu\text{f}$
Grid to cathode and heater.	1.5	$\mu\mu\text{f}$
Plate to cathode and heater	0.16	$\mu\mu\text{f}$

Diode Units:

Diode-No.1 plate to triode grid	0.05	$\mu\mu\text{f}$
Diode-No.2 plate to triode grid	0.04	$\mu\mu\text{f}$
Diode-No.1 cathode to all other tube electrodes	4.6	$\mu\mu\text{f}$
Diode-No.2 cathode to all other tube electrodes	4.8	$\mu\mu\text{f}$
Diode-No.1 plate to cathode and heater.	2.4	$\mu\mu\text{f}$
Diode-No.2 plate to cathode and heater.	2.2	$\mu\mu\text{f}$

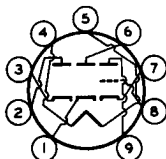
Characteristics, Class A₁ Amplifier (Triode Unit):

Plate Voltage	250	volts
Grid Voltage.	-3	volts
Amplification Factor.	70	
Plate Resistance (Approx.).	58000	ohms
Transconductance.	1200	μmhos
Plate Current	1	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
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 ^b	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 ^b	max.	volts

Characteristics, Instantaneous Test Condition:

Plate Current for plate volts = 5	20	ma
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^a Without external shield.

^b The dc component must not exceed 100 volts.