

Dual Triode

With Medium-Mu Unit and Low-Mu Unit

9-PIN MINIATURE TYPE

For Automobile Radio Receivers Operating
Directly from 6-Cell Storage Batteries

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage range (DC). 10 to 15.9 volts

*For longest life, it is recommended that the heater
be operated within the voltage range of 11 to 14 volts.*

Current (Approx.) at 12.6 volts 0.45 amp

Direct Interelectrode Capacitances (Approx.):

Unit No.1 Unit No.2

Grid to plate 3.9 3.4 μmf

Grid to cathode and heater. . . 4.7 4.2 μmf

Plate to cathode and heater . . 0.75 0.85 μmf

Characteristics, Class A₁ Amplifier:

With heater voltage of 12.6 volts

Unit No.1 Unit No.2

Plate Voltage 12.6 12.6 volts

Grid Resistor 1.5 1 megohms

Amplification Factor. 13 6.4

Plate Resistance (Approx.). . . 3150 985 ohms

Transconductance. 4000 6500 μmhos

Plate Current 1.9 7.5 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. 9A

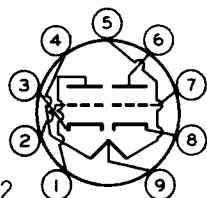
Pin 1 - Plate of Unit No.2 Pins 5 & 9 - Heater of Unit No.1

Pin 2 - Grid of Unit No.2 Pin 6 - Plate of Unit No.1

Pin 3 - Cathode of Unit No.2 Pin 7 - Grid of Unit No.1

Pins 4 & 9 - Heater of Unit No.2 Pin 8 - Cathode of Unit No.1

Pin 9 - Heater Tap



12AE7

AUDIO DRIVER

Values are for Each Unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	16 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 .	16 max.	volts
Heater positive with respect to cathode .	16 max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance	1.5 max.	megohms
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