



6DT8

HIGH-MU TWIN TRIODE

9-PIN MINIATURE TYPE

6DT8

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage 6.3 ac or dc volts

Current 0.3 amp

Direct Interelectrode Capacitances (Approx.):

Unit No. 1 Unit No. 2

Grid-Drive Operation:^o

Grid to plate 1.6 1.6 $\mu\mu\text{f}$

Grid to cathode, internal shield, and heater. 2.7 2.7 $\mu\mu\text{f}$

Plate to cathode, internal shield, and heater. 1.6 1.6 $\mu\mu\text{f}$

Heater to cathode[•]. 3 3 $\mu\mu\text{f}$

Cathode-Drive Operation:[□]

Cathode to grid, internal shield, and heater. - 5.3 $\mu\mu\text{f}$

Plate to grid, internal shield, and heater. - 2.8 $\mu\mu\text{f}$

Characteristics, Class A₁ Amplifier (Each Unit):

Plate-Supply Voltage. 100 250 volts

Cathode Resistor. 270 200 ohms

Amplification Factor. 60 60

Plate Resistance (Approx.). 15000 10900 ohms

Transconductance. 4000 5500 μmhos

Plate Current 3.7 10 ma

Grid Voltage (Approx.) for plate current of 10 μa -5 -12 volts

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"

Maximum Diameter. 7/8"

Dimensional Outline See General Section

Bulb. T6-1/2

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

Basing Designation for BOTTOM VIEW. 9AJ

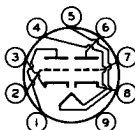
Pin 1 - Plate of Unit No. 2

Pin 2 - Grid of Unit No. 2

Pin 3 - Cathode of Unit No. 2

Pin 4 - Heater

Pin 5 - Heater



Pin 6 - Plate of Unit No. 1

Pin 7 - Grid of Unit No. 1

Pin 8 - Cathode of Unit No. 1

Pin 9 - Internal Shield

^o with external shield JETEC No. 315 connected to cathode of unit under test except as noted.

[•], [□]: See next page.



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AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	300	max.	volts
GRID VOLTAGE:			
Negative bias value	50	max.	volts
PLATE DISSIPATION	2.5	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode.	200	max.	volts
Heater positive with respect to cathode.	200 [▲]	max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance:

For fixed-bias operation.	0.25	max.	megohm
For cathode-bias operation.	1	max.	megohm

● With external shield JETEC No.315 connected to ground.

□ With external shield JETEC No.315 connected to grid of unit under test.

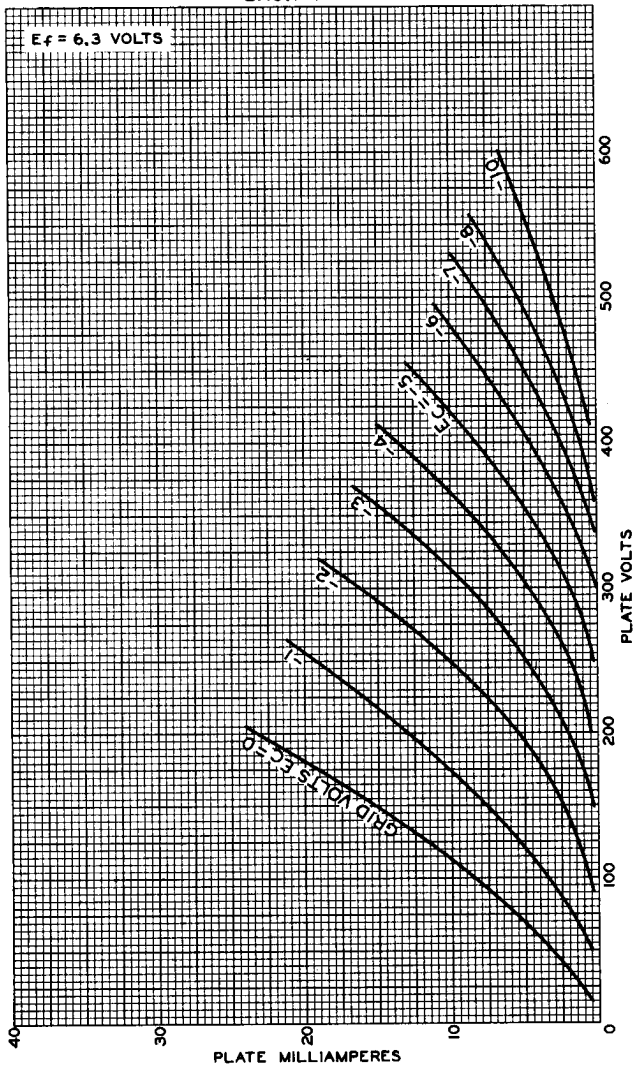
▲ The dc component must not exceed 100 volts.



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AVERAGE PLATE CHARACTERISTICS EACH UNIT



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AVERAGE CHARACTERISTICS EACH UNIT

