



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	
<i>Grid-Drive Operation:</i> ^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 ^o	3	3	$\mu\mu\text{f}$
<i>Cathode-Drive Operation:</i> [□]			
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

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|------------------------------|--|------------------------------|
| Pin 1 - Plate of Unit No.2 | | Pin 6 - Plate of Unit No.1 |
| Pin 2 - Grid of Unit No.2 | | Pin 7 - Grid of Unit No.1 |
| Pin 3 - Cathode of Unit No.2 | | Pin 8 - Cathode of Unit No.1 |
| Pin 4 - Heater | | Pin 9 - Internal Shield |
| Pin 5 - Heater | | |

^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

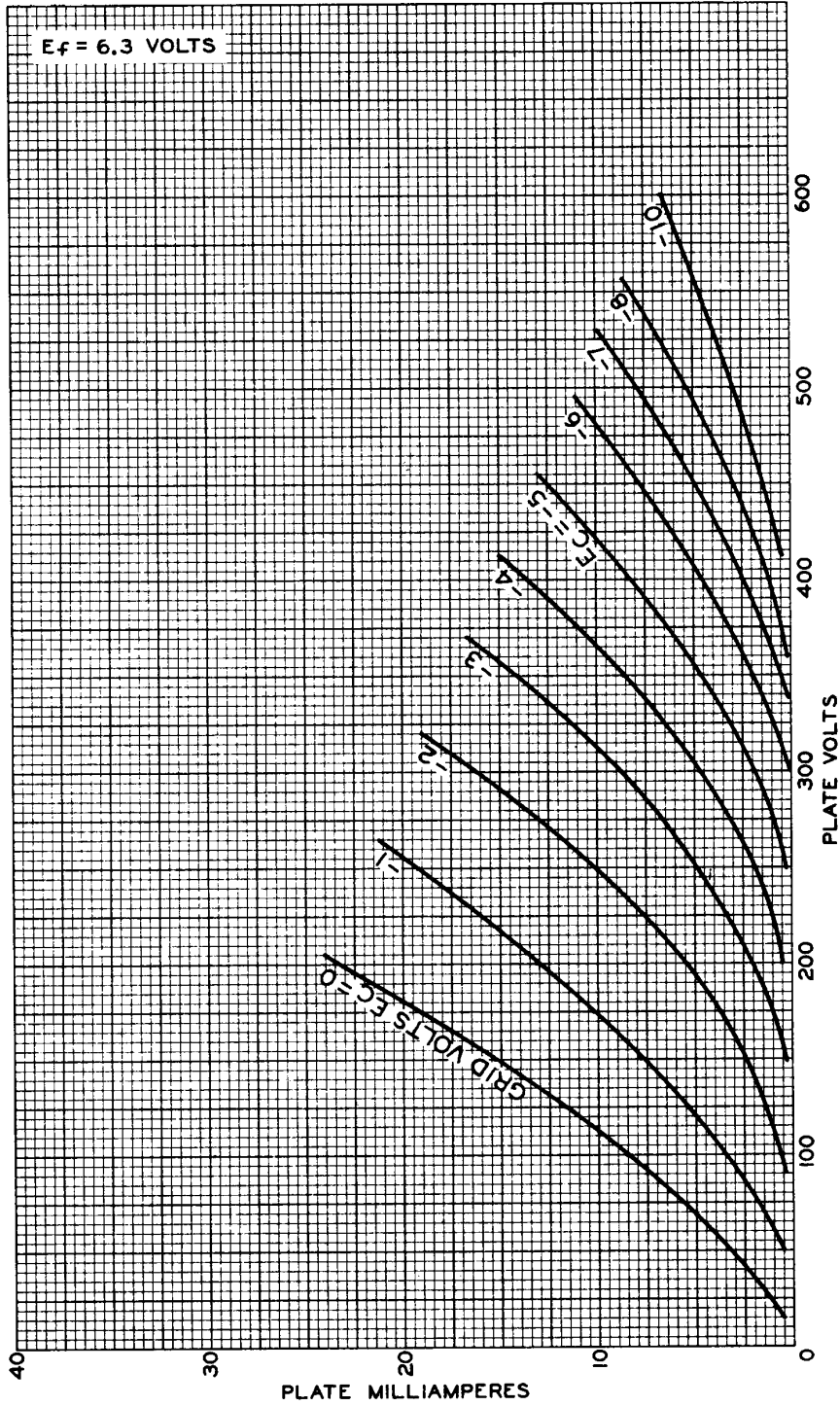
- With external shield JETEC No.315 connected to ground.
- With external shield JETEC No.315 connected to grid of unit under test.
- ▲ The dc component must not exceed 100 volts.



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AVERAGE PLATE CHARACTERISTICS
EACH UNIT

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AVERAGE CHARACTERISTICS
EACH UNIT

