



6SN7-GTA

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MEDIUM-MU TWIN TRIODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage 6.3 ac or dc volts

Current 0.6 amp

Direct Interelectrode Capacitances (With no external shield):

	Unit No. 1	Unit No. 2	
Grid to plate	4	3.8	μ uf
Grid to cathode and heater . . .	2.2	2.6	μ uf
Plate to cathode and heater . . .	0.7	0.7	μ uf

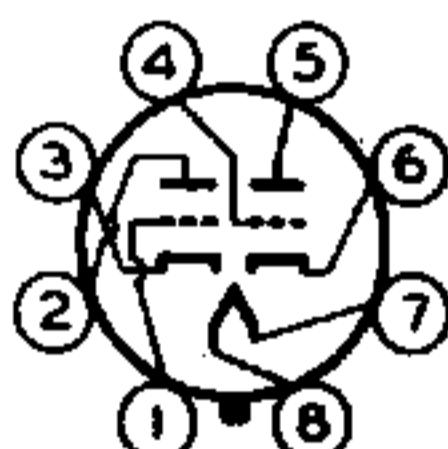
Characteristics, Class A, Amplifier (Each Unit):

Plate Voltage	90	250	volts
Grid Voltage	0	-8	volts
Amplification Factor	20	20	volts
Plate Resistance (Approx.) . . .	6700	7700	ohms
Transconductance	3000	2600	μ mhos
Plate Current	10	9	ma
Plate Current for grid voltage of -12.5 volts	-	1.3	ma
Grid Voltage (Approx.) for plate current of 10 μ amp	-7	-18	volts

Mechanical:

Mounting Position	Any
Maximum Overall Length	3-5/16"
Maximum Seated Length	2-3/4"
Maximum Diameter	1-9/32"
Bulb	T-9
Base	Short Intermediate-Shell Octal 8-Pin with External Barriers (JETEC No.B8-58)
Basing Designation for BOTTOM VIEW	8BD

- Pin 1 - Grid of Unit No. 2
- Pin 2 - Plate of Unit No. 2
- Pin 3 - Cathode of Unit No. 2
- Pin 4 - Grid of Unit No. 1



- Pin 5 - Plate of Unit No. 1
- Pin 6 - Cathode of Unit No. 1
- Pin 7 - Heater
- Pin 8 - Heater

AMPLIFIER - Class A, Values are for Each Unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE 450 max. volts
CATHODE CURRENT 20 max. ma



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PLATE DISSIPATION:

Either plate	5 max.	watts
Both plates (Both units operating) . . .	7.5 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, grid-resistor bias, or cathode-bias operation	2.2 max.	megohms
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VERTICAL DEFLECTION AMPLIFIER

Values are for Each Unit

Maximum Ratings, Design-Center Values Except as Noted:

For operation in a 525-line, 30-frame system[□]

DC PLATE VOLTAGE	450 max.	volts
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PEAK POSITIVE-PULSE PLATE VOLTAGE [#]		
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(Absolute Maximum) . . . 1500[■] max. volts

PEAK NEGATIVE-PULSE GRID VOLTAGE	250 max.	volts
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CATHODE CURRENT:

Peak	70 max.	ma
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Average	20 max.	ma
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PLATE DISSIPATION:

Either plate	5 max.	watts
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Both plates (Both units operating) . . .	7.5 max.	watts
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PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode	200 max.	volts
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Heater positive with respect to cathode	200 [▲] max.	volts
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Maximum Circuit Values:

Grid-Circuit Resistance:

For cathode-bias operation	2.2 max.	megohms
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* The dc component must not exceed 100 volts.

□ As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.

■ This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.

■ This rating is applicable where the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.

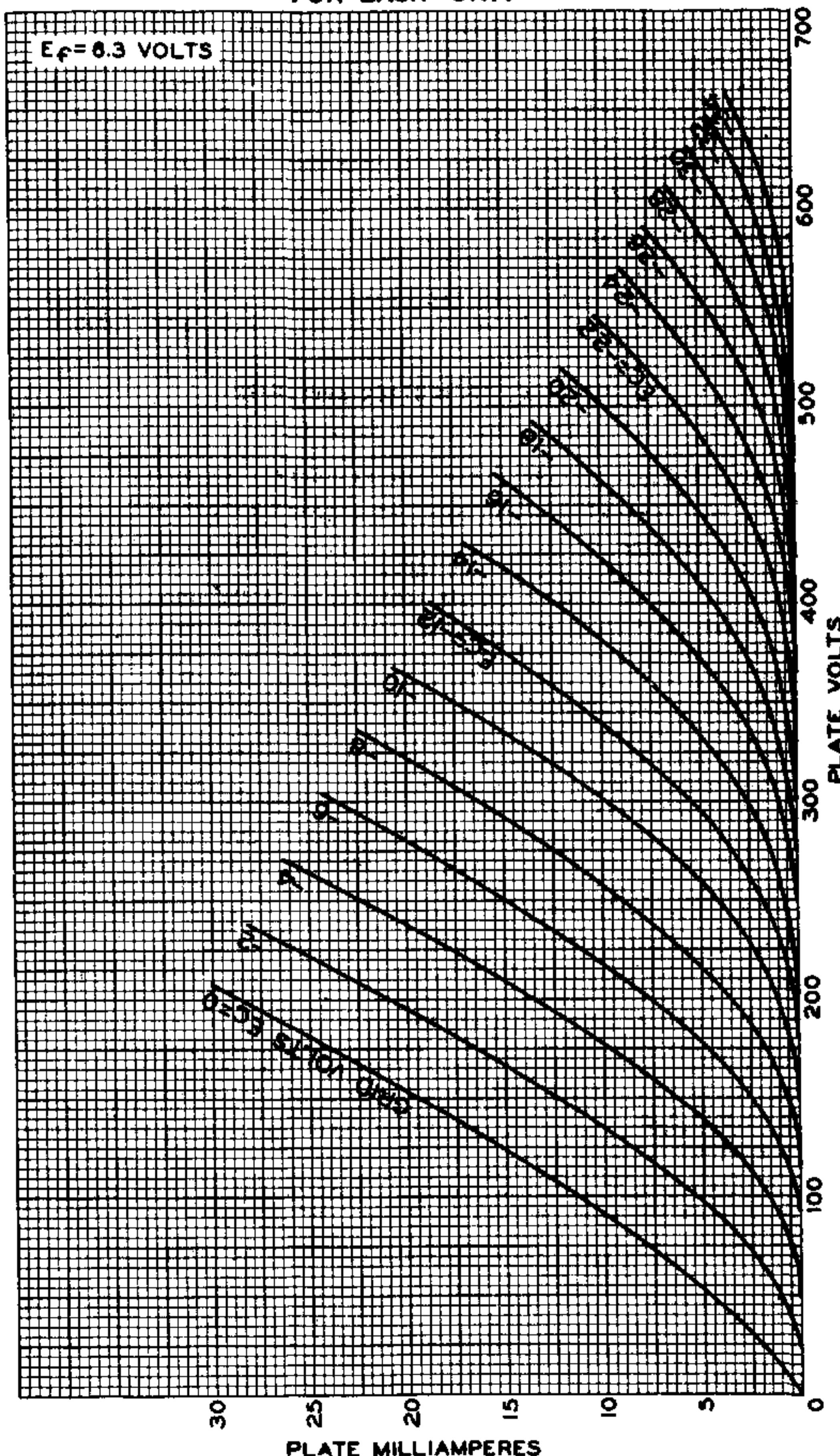
■ Under no circumstances should this absolute value be exceeded.

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**AVERAGE PLATE CHARACTERISTICS
FOR EACH UNIT**



APRIL. 28, 1954

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-8322



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AVERAGE CHARACTERISTICS
FOR EACH UNIT

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$E_F = 6.3$ VOLTS

PLATE VOLTS (E_B) = 250

