



6AS7-G

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LOW-MU TWIN POWER TRIODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage.	6.3	ac or dc volts
Current.	2.5	amp

Direct Interelectrode Capacitances (Approx., each unit):^o

Grid to plate.	10.5	μf
Grid to heater and cathode	6.8	μf
Plate to heater and cathode	2.3	μf
Heater to cathode.	11.0	μf
Grid of unit No.1 to grid of unit No.2	0.70	μf
Plate of unit No.1 to plate of unit No.2.	1.65	μf

Characteristics, Class A₁ Amplifier (Each unit):

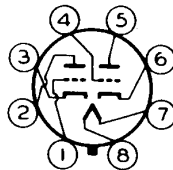
Plate-Supply Voltage	135	volts
Cathode-Bias Resistor [■]	250	ohms
Amplification Factor	2	
Plate Resistance (Approx.)	280	ohms
Transconductance	7000	μmhos
Plate Current.	125	ma

Mechanical:

Mounting Position.	Any
Maximum Overall Length	5-5/16"
Maximum Seated Length.	4-3/4"
Maximum Diameter	2-1/16"
Bulb	ST-16

Base	Medium-Shell Octal 8-Pin (JETEC No. B8-11)
Basing Designation for BOTTOM VIEW	8BD

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



DC AMPLIFIER

Values are for Each Unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	250 max.	volts
PLATE CURRENT.	125 max.	ma
PLATE DISSIPATION.	13 max.	watts
PEAK HEATER-CATHODE VOLTAGE:		
Heater negative with respect to cathode.	300 max.	volts
Heater positive with respect to cathode.	300 max.	volts

^o without external shield.

[■] Operation with fixed bias is not recommended.

← Indicates a change.

MAY 1, 1955

TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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Maximum Circuit Values (For maximum rated conditions):

Grid-Circuit Resistance:
 For cathode-bias operation 1.0 max. megohm
 For fixed-bias operation Not recommended

BOOSTER SCANNING SERVICE
Values are for Each Unit

Maximum Ratings, Design-Center Values:
For operation in a 525-line, 30-frame system[□]

PEAK NEGATIVE-PULSE PLATE VOLTAGE[•] 1700 max. volts
 DC PLATE CURRENT 125 max. ma
 PLATE DISSIPATION. 13 max. watts

PEAK HEATER-CATHODE VOLTAGE:
 Heater negative with respect to cathode . 300 max. volts
 Heater positive with respect to cathode . 300 max. volts

Maximum Circuit Values (For maximum rated conditions):

Grid-Circuit Resistance:
 For cathode-bias operation 1.0 max. megohm
 For fixed-bias operation Not recommended

□ As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.
 • The duration of the voltage pulse must 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.

MAY 1, 1955

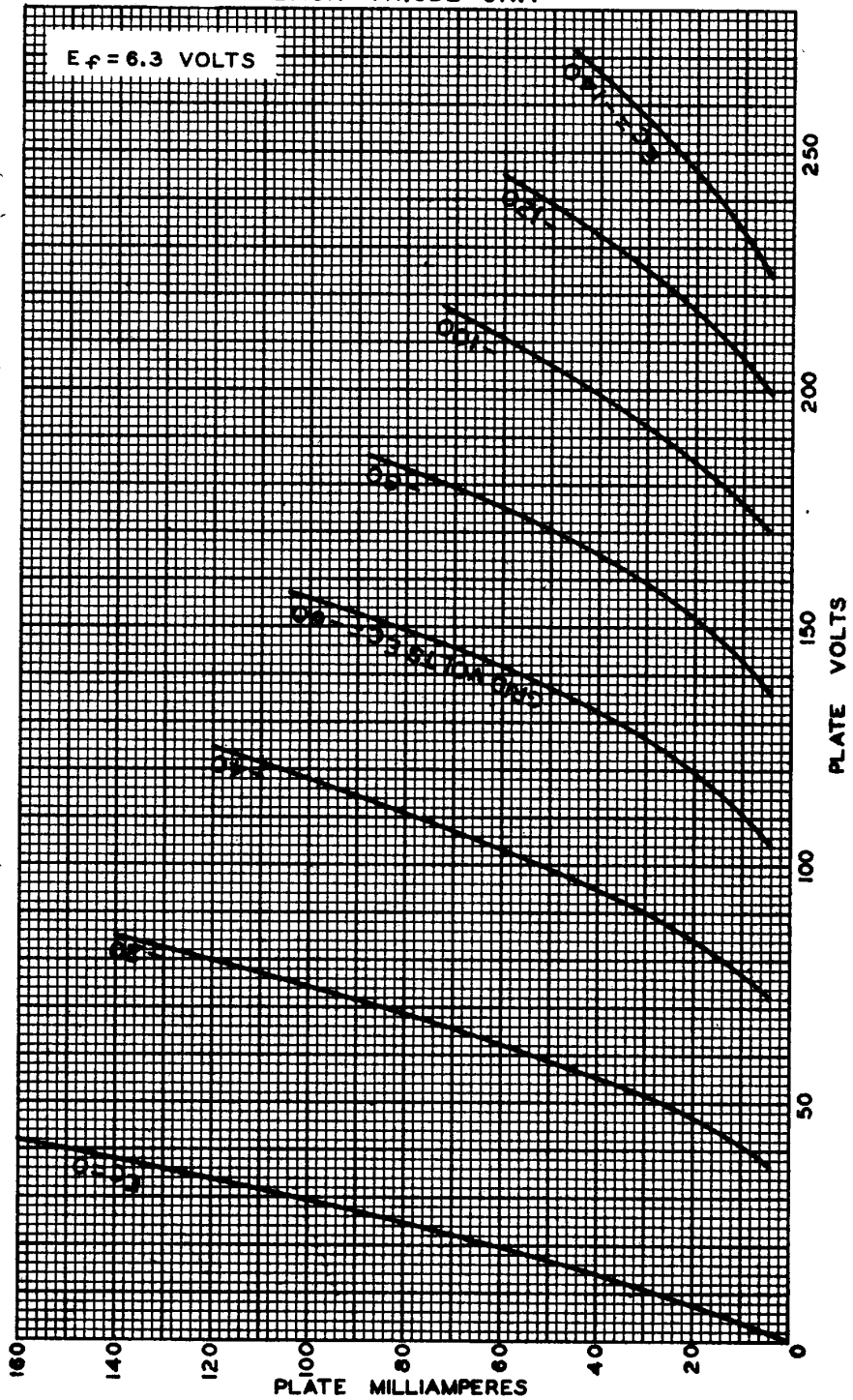
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AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT

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NOV. 8, 1945

RCA VICTOR DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-6618