



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	$\mu\mu\text{f}$
Grid to heater and cathode	6.8	$\mu\mu\text{f}$
Plate to heater and cathode	2.3	$\mu\mu\text{f}$
Heater to cathode	11.0	$\mu\mu\text{f}$
Grid of unit No.1 to grid of unit No.2	0.70	$\mu\mu\text{f}$
Plate of unit No.1 to plate of unit No.2	1.65	$\mu\mu\text{f}$

Characteristics, Class A₁ Amplifier (Each unit):

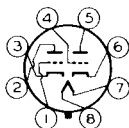
Plate-Supply Voltage	135	volts
Cathode-Bias Resistor [■]	250	ohms
Amplification Factor	2	
Plate Resistance (Approx.)	280	ohms
Transconductance	7000	μmhos
Plate Current	125	ma

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 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

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.

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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

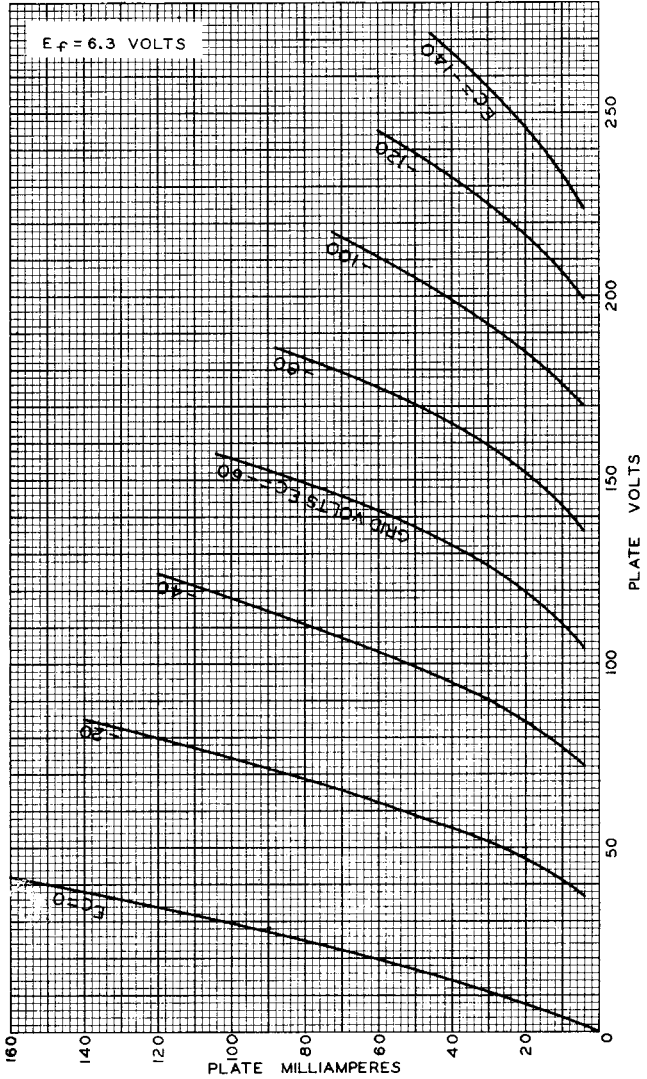
- As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations", Federal Communications Commission.
- The duration of the voltage pulse must not exceed 15 per cent of one horizontal scanning cycle. In a 525-line, 30-frame system, 15 per cent of one horizontal scanning cycle is 10 microseconds.



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AVERAGE PLATE CHARACTERISTICS
EACH TRIODE UNIT

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

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