

Medium-Mu Twin Triode

9-PIN MINIATURE TYPE

For TV Tuners Using Direct-Coupled Cathode-Drive Circuits

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage (AC or DC) 6.3 volts

Current 0.4 amp

Direct Interelectrode Capacitances:*

	Unit No.1	Unit No.2	
Grid to plate	1.2	1.2	μf
Grid to cathode, internal shield, and heater.	2.6	—	μf
Cathode to grid, internal shield, and heater.	—	5	μf
Plate to cathode, internal shield, and heater.	1.2	—	μf
Plate to grid, internal shield, and heater.	—	2.2	μf
Plate to cathode.	0.12	0.12	μf
Heater to cathode	2.6	2.6	μf
Plate of unit No.1 to plate of unit No.2.	0.010 max.		μf
Plate of unit No.2 to plate and grid of unit No.1	0.024 max.		μf

Characteristics, Class A₁ Amplifier (Each Unit):

Plate Supply Voltage.	150	volts
Cathode Resistor.	220	ohms
Amplification Factor.	38	
Plate Resistance (Approx.).	5900	ohms
Transconductance.	6400	μmhos
Plate Current	9	ma
Grid Voltage (Approx.) for plate $\mu_a = 100$	-6.5	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"
Diameter.	0.750" to 0.875"
Dimensional Outline	See <i>General Section</i>
Bulb.	T6-1/2
Base.	Small-Button Noval 9-Pin (JEDEC No.E9-1)

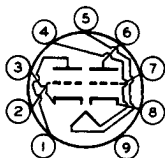
* Indicates a change.



6BQ7A

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

AMPLIFIER — Class A₁

Values are for Each Unit

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE	250 ^b max.	volts
PLATE DISSIPATION	2 max.	watts
CATHODE CURRENT	20 max.	ma

→ PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode.	200 ^b max.	volts
Heater positive with respect to cathode.	200 ^c max.	volts

Maximum Circuit Values:

Grid-Circuit Resistance	0.5 max.	megohm
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^a With external shield JEDEC No.315 connected to internal shield.

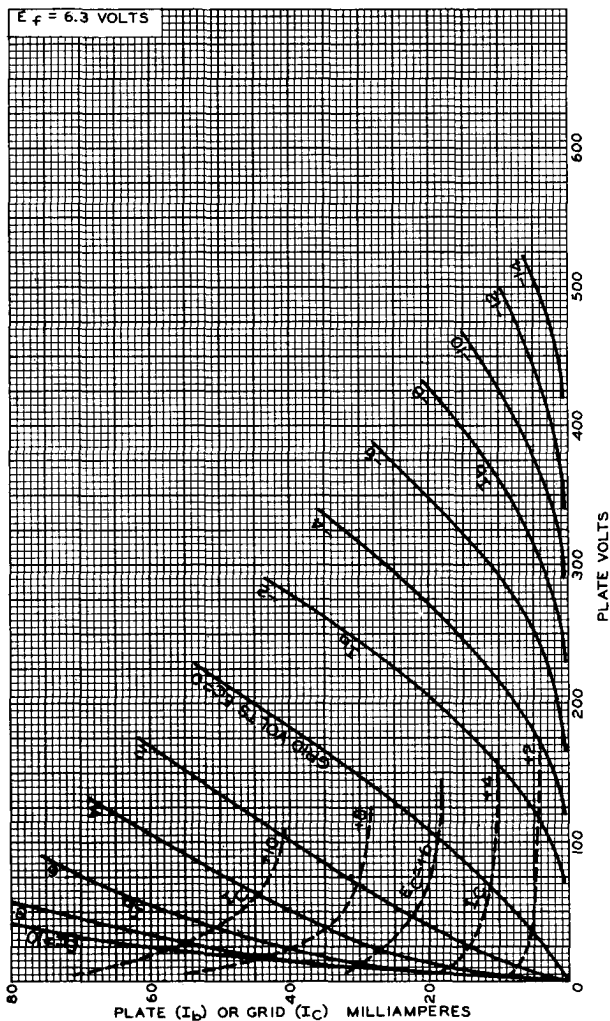
^b Under cutoff conditions in direct-coupled cathode-drive circuits, it is permissible for this voltage to be as high as 300 volts.

^c The dc component must not exceed 100 volts.

→ Indicates a change.

AVERAGE CHARACTERISTICS Each Unit

$E_f = 6.3$ VOLTS



92CM-7536R1

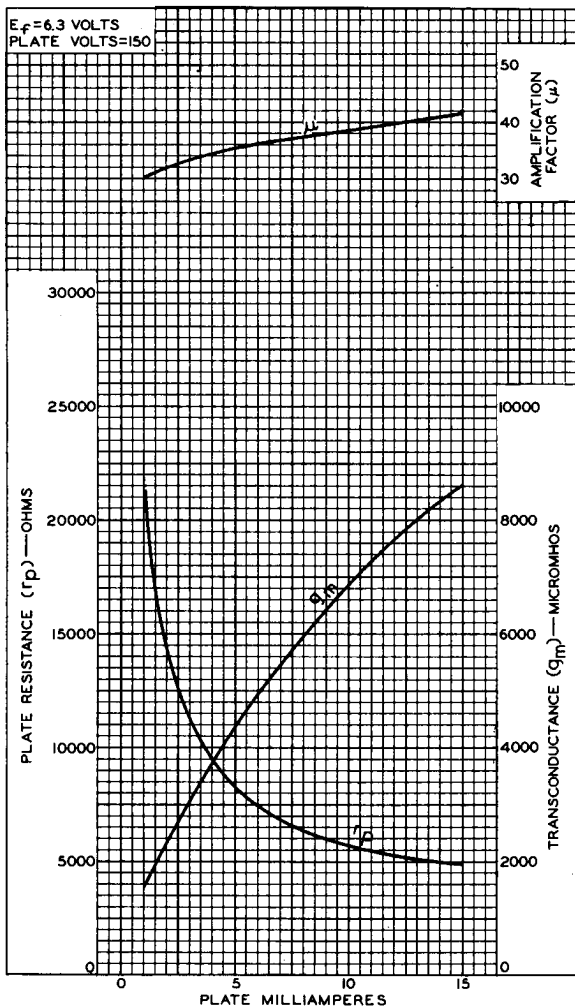


RADIO CORPORATION OF AMERICA
Electron Tube Division Harrison, N. J.

DATA 2
1-62

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AVERAGE CHARACTERISTICS Each Unit



92CM-7538R2

