

6BQ7A

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:^a

	Unit No.1	Unit No.2	
Grid to plate	1.2	1.2	$\mu\mu\text{f}$
Grid to cathode, internal shield, and heater.	2.6	-	$\mu\mu\text{f}$
Cathode to grid, internal shield, and heater.	-	5	$\mu\mu\text{f}$
Plate to cathode, internal shield, and heater.	1.2	-	$\mu\mu\text{f}$
Plate to grid, internal shield, and heater.	-	2.2	$\mu\mu\text{f}$
Plate to cathode.	0.12	0.12	$\mu\mu\text{f}$
Heater to cathode	2.6	2.6	$\mu\mu\text{f}$
Plate of unit No.1 to plate of unit No.2.	0.010 max.		$\mu\mu\text{f}$
Plate of unit No.2 to plate and grid of unit No.1	0.024 max.		$\mu\mu\text{f}$

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 $\mu\text{a} = 100$	-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.



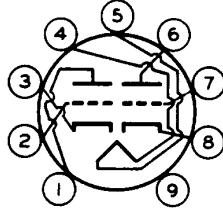
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Electron Tube Division
Harrison, N. J.

DATA 1
1-62

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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

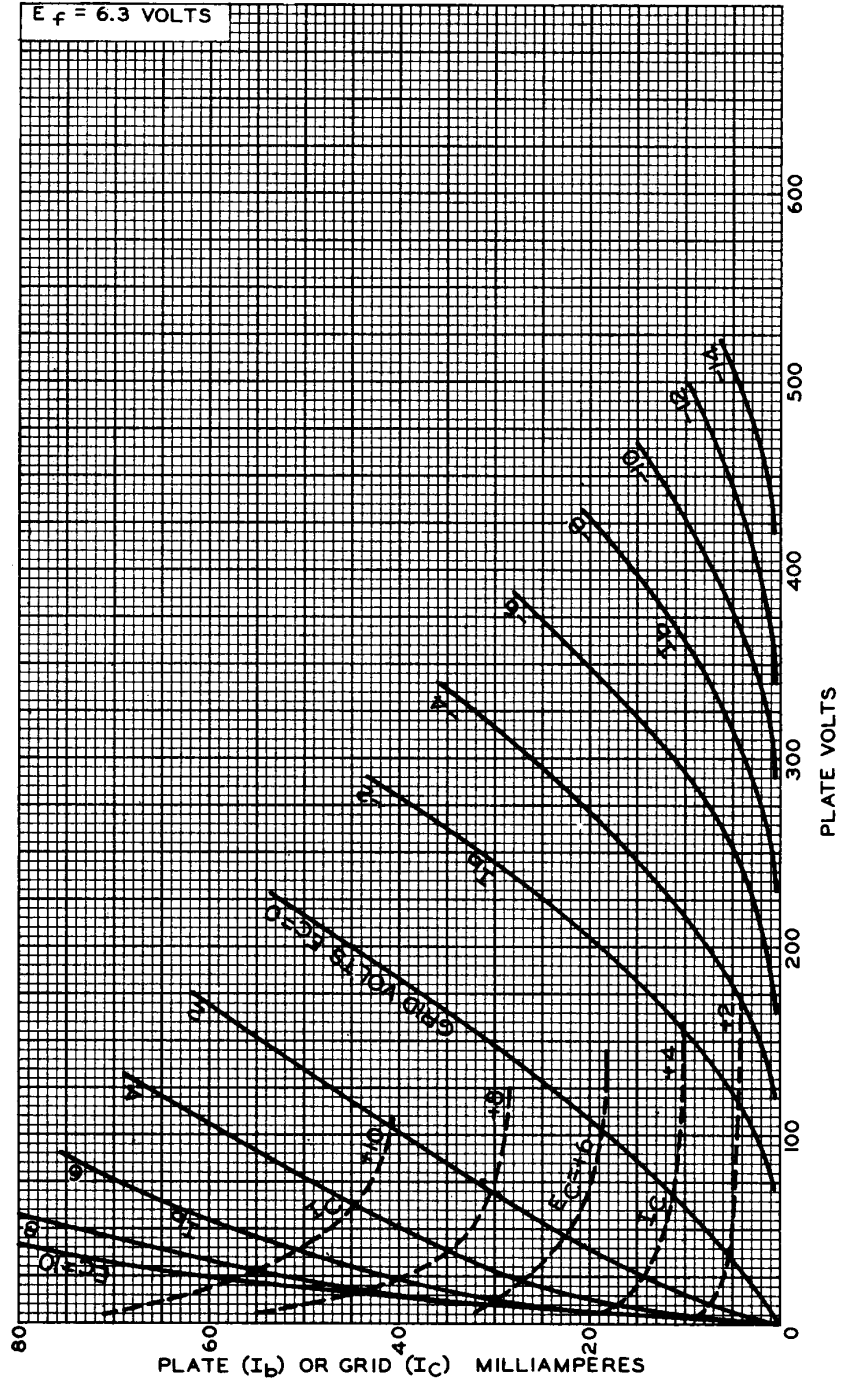
- ^a With external shield JEDEC No.315 connected to internal shield.
- ^b Under cutoff conditions in direct-coupled cathode-drive circuits, it is permissible for this voltage to be as high as 300 volts.
- ^c The dc component must not exceed 100 volts.

→ Indicates a change.



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AVERAGE CHARACTERISTICS Each Unit

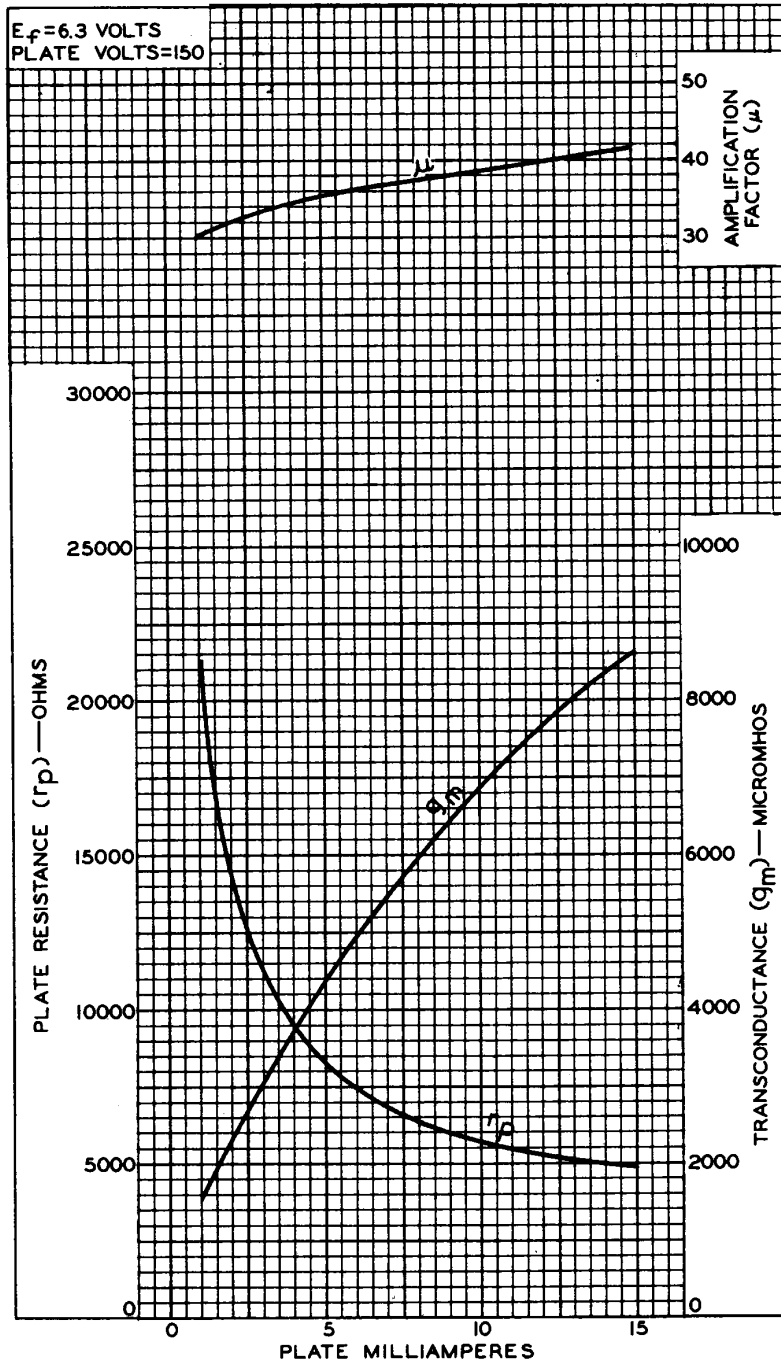


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DATA 2
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AVERAGE CHARACTERISTICS Each Unit



92CM-7538R2

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