



6BK7-B

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MEDIUM-MU TWIN TRIODE

9-PIN MINIATURE TYPE

With heater having controlled warm-up time. For TV tuners using direct-coupled cathode-drive circuits.

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage	6.3	 ac or dc volts
Current	0.45	 amp
Warm-up time (Average)	11	 sec

For definition of heater warm-up time and method of determining it, see sheet HEATER WARM-UP TIME MEASUREMENT at front of this Section.

Direct Interelectrode Capacitances:⁰

	Unit No.1	Unit No.2	
Grid to plate	1.8	1.8	μf
Grid to cathode, internal shield, and heater.	3	3	μf
Plate to cathode, internal shield, and heater.	1	0.9	μf
Heater to cathode	2.8	3	μf
Plate to cathode.	0.22	0.22	μf
Cathode to grid, internal shield, and heater.	6	6	μf
Plate to grid, internal shield, and heater.	2.4	2.4	μf
Grid of unit No.1 to grid of unit No.2.	0.004 max.		μf
Plate of unit No.1 to plate of unit No.2.	0.075 max.		μf

Characteristics, Class A₁ Amplifier (Each Unit):

Plate-Supply Voltage.	150	volts
Cathode Resistor.	56	ohms
Amplification Factor.	43	
Plate Resistance (Approx.).	4600	ohms
Transconductance.	9300	μmhos
Plate Current	18	ma
Grid Volts (Approx.) for plate $\mu\text{a} = 10$	-11	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 General Section
Bulb.	T6-1/2

⁰ without external shield.

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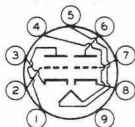


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Base. Small-Button Noval 9-Pin (JETEC No.E9-1)
 Basing Designation for BOTTOM VIEW. 9AJ

- 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	300 max. volts
GRID VOLTAGE:	
Negative-bias value	50 max. volts
PLATE DISSIPATION	2.7 max. watts
PEAK HEATER-CATHODE VOLTAGE:	
Heater negative with respect to cathode.	200 [■] max. volts
Heater positive with respect to cathode.	200 [▲] max. volts

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

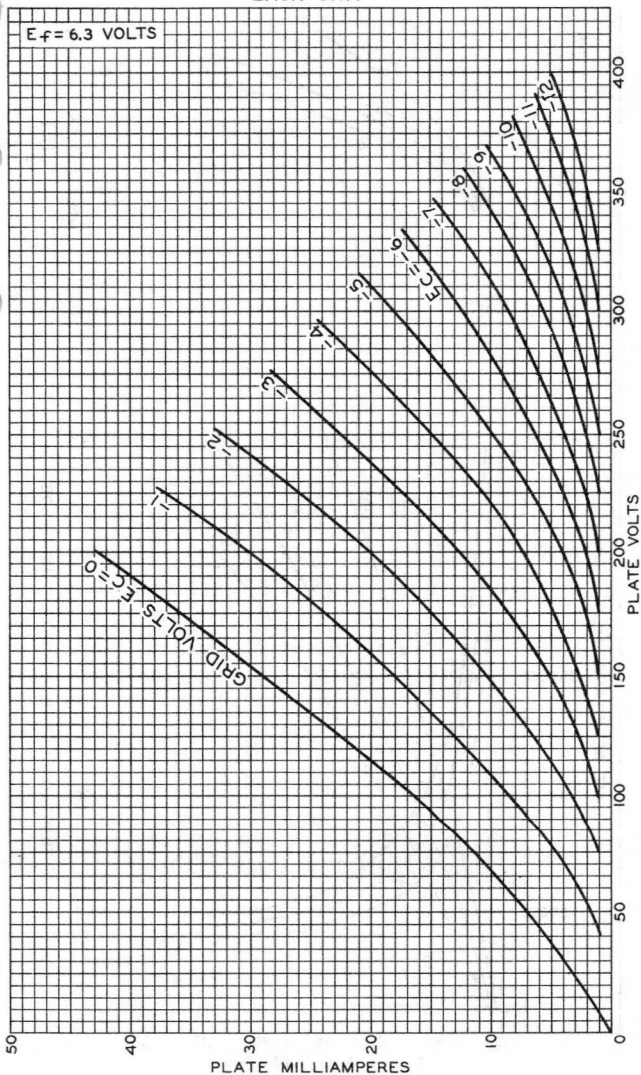
▲ The dc component must not exceed 100 volts.



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AVERAGE PLATE CHARACTERISTICS EACH UNIT

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ELECTRON TUBE DIVISION
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

92CM-9764

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AVERAGE CHARACTERISTICS EACH UNIT

