



6BK7-B

MEDIUM-MU TWIN TRIODE

9-PIN MINIATURE TYPE

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

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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:^o

	Unit No. 1	Unit No. 2	
Grid to plate	1.8	1.8	$\mu\mu\text{f}$
Grid to cathode, internal shield, and heater.	3	3	$\mu\mu\text{f}$
Plate to cathode, internal shield, and heater.	1	0.9	$\mu\mu\text{f}$
Heater to cathode	2.8	3	$\mu\mu\text{f}$
Plate to cathode.	0.22	0.22	$\mu\mu\text{f}$
Cathode to grid, internal shield, and heater.	6	6	$\mu\mu\text{f}$
Plate to grid, internal shield, and heater.	2.4	2.4	$\mu\mu\text{f}$
Grid of unit No.1 to grid of unit No.2.	0.004 max.		$\mu\mu\text{f}$
Plate of unit No.1 to plate of unit No.2.	0.075 max.		$\mu\mu\text{f}$

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

^o Without external shield.

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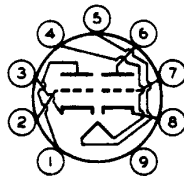


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Base Small-Button Noval 9-Pin (JETEC No.E9-1)
Basing Designation for BOTTOM VIEW. 9AJ

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 indirect-coupled cathode-drive circuits, it is permissible for this voltage to be as high as 300 volts.

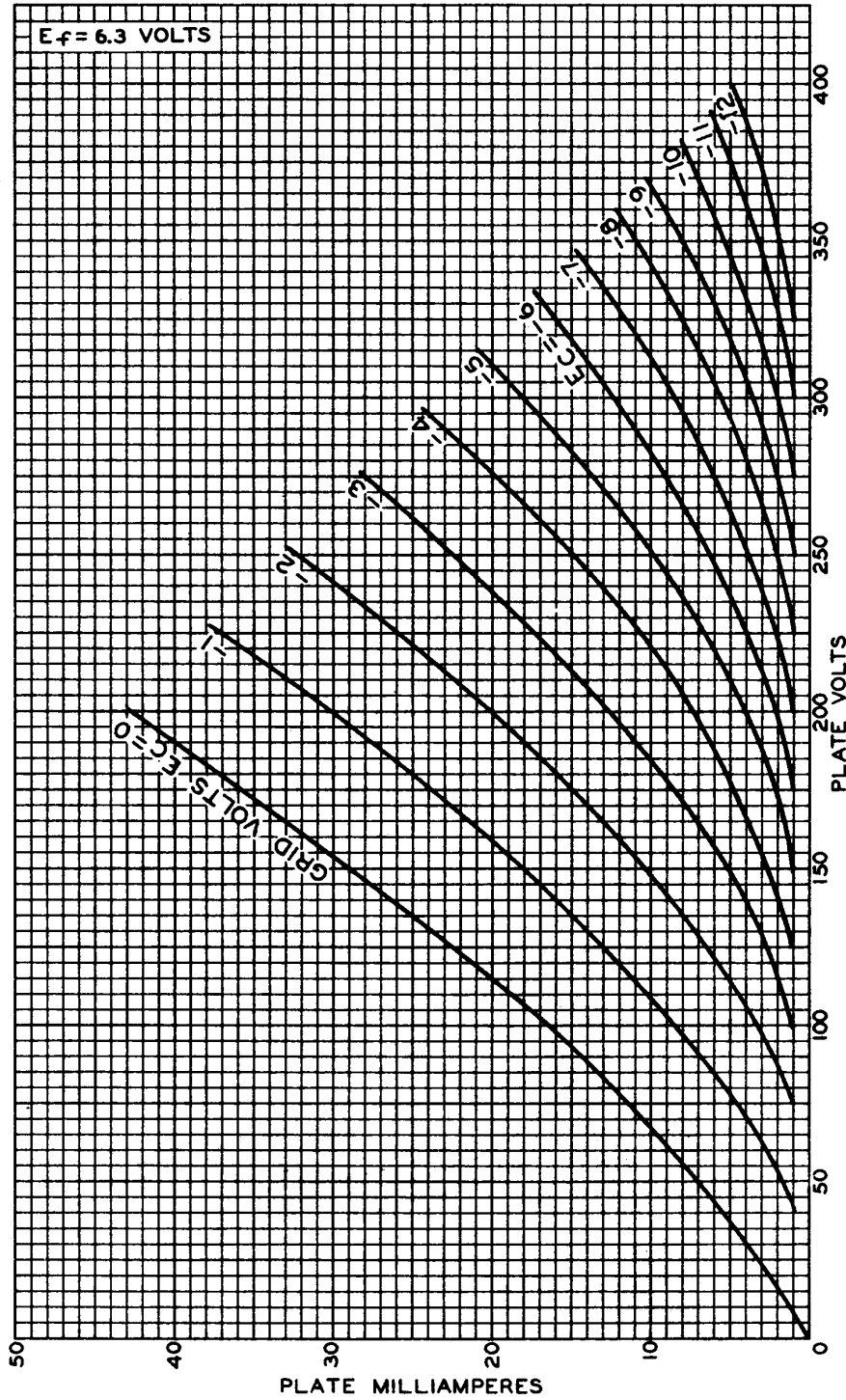
▲ The dc component must not exceed 100 volts.



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AVERAGE PLATE CHARACTERISTICS
EACH UNIT

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AVERAGE CHARACTERISTICS
EACH UNIT

