



6BK7-B

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MEDIUM-MU TWIN TRIODE

9-PIN MINIATURE TYPE

*Intended for use in equipment having
series heater-string arrangement*

The 6BK7-B is the same as the 6BK7-A except for the following items:

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.



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

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 $\mu\alpha = 10$	-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.

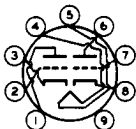


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MEDIUM-MU TWIN TRIODE

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.

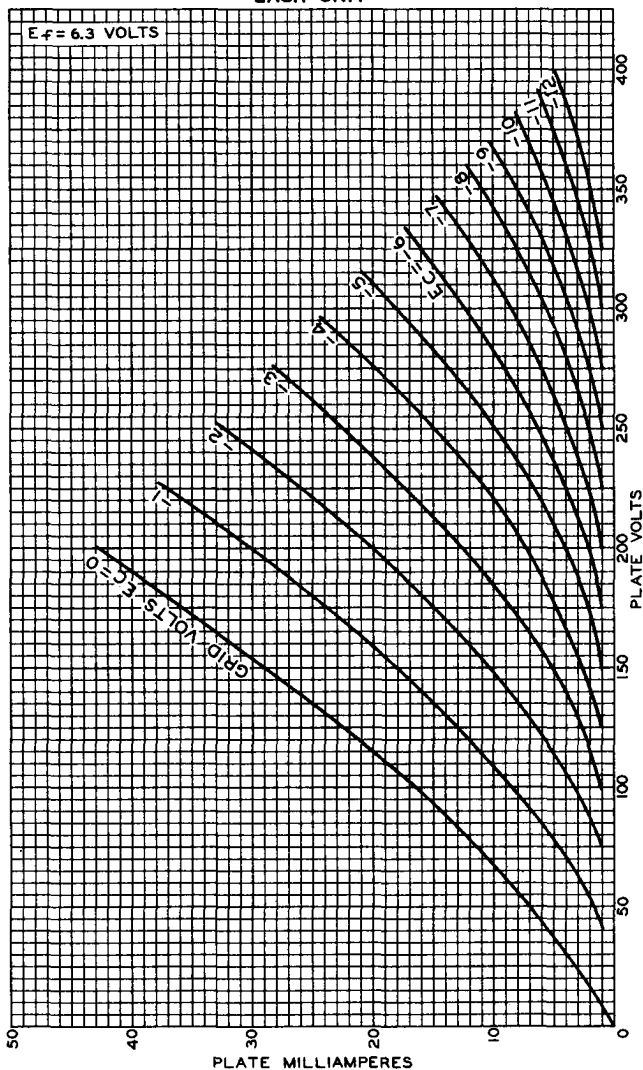
[▲] The dc component must not exceed 100 volts.



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AVERAGE PLATE CHARACTERISTICS EACH UNIT

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AVERAGE CHARACTERISTICS EACH UNIT

