



6BK7-A

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MEDIUM-MU TWIN TRIODE

9-PIN MINIATURE TYPE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathodes:

Voltage 6.3 ac or dc volts

Current 0.45 amp ←

Direct Interelectrode Capacitances:⁰

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

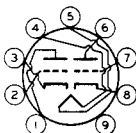
Characteristics, Class A₁ Amplifier (Each Unit):

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 current of 10 μamp	-11	volts

Mechanical:

Mounting 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" ± 3/32" ←
Maximum Diameter	7/8"
Dimensional Outline	See General Section
Bulb	T6-1/2
Base	Small-Button Noval 9-Pin (JETEC No. E9-1)
Basing Designation for BOTTOM VIEW	9AJ

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|------------------------------|------------------------------|
| Pin 1 - Plate of Unit No.2 | Pin 6 - Plate of Unit No.1 |
| Pin 2 - Grid of Unit No.2 | Pin 7 - Grid of Unit No.1 |
| Pin 3 - Cathode of Unit No.2 | Pin 8 - Cathode of Unit No.1 |
| Pin 4 - Heater | Pin 9 - Internal Shield |
| Pin 5 - Heater | |



⁰ without external shield.

← Indicates a change.

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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 cascode-type circuits with direct-coupled drive, it is permissible for this voltage to be as high as 300 volts.

▲ The dc component must not exceed 100 volts.

→ Indicates a change.