6AM4

HIGH-MU TRIODE

9-PIN MINIATURE TYPE

For use as mixer and rf amplifier in cathode-drive circuits of UHF TV tuners

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

Voltage	6.3	ac or dc volts
Current	0.225	amp

Direct Interelectrode Capacitances (Approx.):

	Without External Shield	*With External Shield°*	
Plate to cathode	0.16	0.16	μμf
Cathode to grid and heater	4.4	4.6	μμf
Plate to grid and heater	2.4	2.8	μμf
Heater to cathode	1.8	1.8	μμf

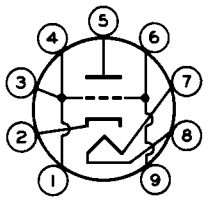
Characteristics, Class A_1 Amplifier:

Plate-Supply Voltage	200	volts
Cathode Resistor#	100	ohms
Amplification Factor	85	
Plate Resistance (Approx.)	8700	ohms
Transconductance	9800	μmhos
Plate Current	10	ma
Grid Voltage (Approx.) for plate current of 10 μa	-6.5	volts

Mechanical:

Operating Position	Any
Maximum Overall Length	1-3/4"
Maximum Seated Length	1-1/2"
Length, Base Seat to Bulb Top (Excluding tip)	1-1/8" ± 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	9BX

Pin 1 - Grid
Pin 2 - Cathode
Pin 3 - Grid
Pin 4 - Grid
Pin 5 - Plate



Pin 6 - Grid
Pin 7 - Heater
Pin 8 - Heater
Pin 9 - Grid

AMPLIFIER — Class A_1

Maximum Ratings, *Design-Center Values.*

PLATE VOLTAGE	200 max.	volts
GRID VOLTAGE:		
Positive bias value	0 max.	volts

°,#: See next page.

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RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

TENTATIVE DATA

6AM4

HIGH-MU TRIODE

PLATE DISSIPATION.	2	max.	watts
PEAK HEATER–CATHODE VOLTAGE:			
Heater negative with respect to cathode.	80■	max.	volts
Heater positive with respect to cathode.	80	max.	volts

° With external shield JETEC No.315 connected to grid.

Fixed-bias operation is not recommended.

■ Under cutoff conditions in cascode-type circuits with direct-coupled drive, it is permissible for this voltage to be as high as 250 volts.

OPERATING CONSIDERATIONS

When the 6AM4 is used in cathode-drive operation at high frequencies, all 5 grid terminals should be connected to ground to minimize the effects of grid-lead inductance.

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TENTATIVE DATA