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7AG7 SHARP-CUTOFF PENTODE

GENERAL DATA

Electrical:

Heater, for Unipotential Cathode:

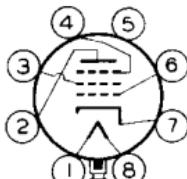
Voltage.	6.3 ^a	ac or dc volts
Current.	0.15 ^b	amp
Direct Interelectrode Capacitances: ^c		
Grid No.1 to Plate . .	0.005 max.	μuf
Input.	7	μuf
Output	6	μuf

^a with external shield connected to cathode.

Mechanical:

Mounting Position.	Any
Maximum Overall Length	2-25/32"
Maximum Seated Length.	2-1/4"
Maximum Diameter	1-3/16"
Bulb	T-9
Base	Lock-in 8-Pin
Basing Designation for BOTTOM VIEW	8V

- Pin 1-Heater
Pin 2-Plate
Pin 3-Grid No.2
Pin 4-Grid No.3
Pin 5-Internal
Shield



- Pin 6-Grid No.1
Pin 7-Cathode
Pin 8-Heater
Plug - Base
Shell

AMPLIFIER - Class A₁

Maximum Ratings, Design-Center Values:

PLATE VOLTAGE.	300 max.	volts
GRID-No.2 (SCREEN) VOLTAGE	300 max.	volts
PLATE DISSIPATION.	2 max.	watts
GRID-No.2 DISSIPATION.	0.75 max.	watt
GRID-No.1 (CONTROL-GRID) VOLTAGE:		

Negative bias value. 1 min. volt

PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode. 90 max. volts

Heater positive with respect to cathode. 90 max. volts

Nominal voltage = 7.0 volts.

Nominal current = 0.16 ampere.

JUNE 15, 1948

TUBE DEPARTMENT

RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

DATA



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Typical Operation and Characteristics:

Plate Voltage.	250	. .	volts
Grid No.3 (Suppressor) :	Connected to cathode at socket		
Internal Shield.	Connected to cathode at socket		
Grid-No.2 Voltage.	250	. .	volts
Cathode-Bias Resistor*	250	. .	ohms
Plate Resistance (Approx.)	0.75	. .	megohm
Transconductance	4200	. .	μ hos
Grid-No.1 Bias (Approx.) for plate current of 10 μ a . . .	-10	. .	volts
Plate Current.	6	. .	ma
Grid-No.2 Current.	2	. .	ma

* Fixed-bias operation is not recommended.