



6L4

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# OSCILLATOR TRIODE

ACORN TYPE

## GENERAL DATA

### Electrical:

Heater, for Unipotential Cathode:

Voltage . . . . .	6.3	ac or dc volts
Current . . . . .	0.225	amp

Direct Interelectrode Capacitances:

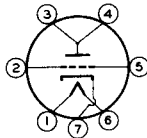
Grid to Plate . . . . .	1.6	$\mu\text{f}$
Grid to Cathode . . . . .	1.8	$\mu\text{f}$
Plate to Cathode . . . . .	0.5	$\mu\text{f}$

\* With no external shield.

### Mechanical:

Mounting Position . . . . .	Any
Overall Length . . . . .	1-7/32" $\pm$ 5/32"
Overall Diameter (including radial pins) . . . . .	1-3/32" $\pm$ 1/16"
Bulb . . . . .	T-4-1/2
Base . . . . .	Small Radial 7-Pin
Basing Designation for BOTTOM VIEW . . . . .	7BR

- Pin 1 - Heater
- Pin 2 - Grid
- Pin 3 - Plate
- Pin 4 - Plate



- Pin 5 - Grid
- Pin 6 - Heater
- Pin 7 - Cathode

## AMPLIFIER - Class A<sub>1</sub>

### Maximum Ratings, Design-Center Values:

PLATE VOLTAGE . . . . .	500 max.	volts
PLATE DISSIPATION . . . . .	1.7 max.	watts
PLATE CURRENT . . . . .	15 max.	ma

### PEAK HEATER-CATHODE VOLTAGE:

Heater negative with respect to cathode . . . . .	80 max.	volts
Heater positive with respect to cathode . . . . .	80 max.	volts

### Typical Operation and Characteristics:

Plate Voltage . . . . .	80	volts
Cathode-Bias Resistor . . . . .	150	ohms
Amplification Factor . . . . .	28	
Plate Resistance . . . . .	4400	ohms
Transconductance . . . . .	6400	$\mu\text{mhos}$
Plate Current . . . . .	9.5	ma

### Maximum Circuit Values (for maximum rated conditions):

Grid-Circuit Resistance:

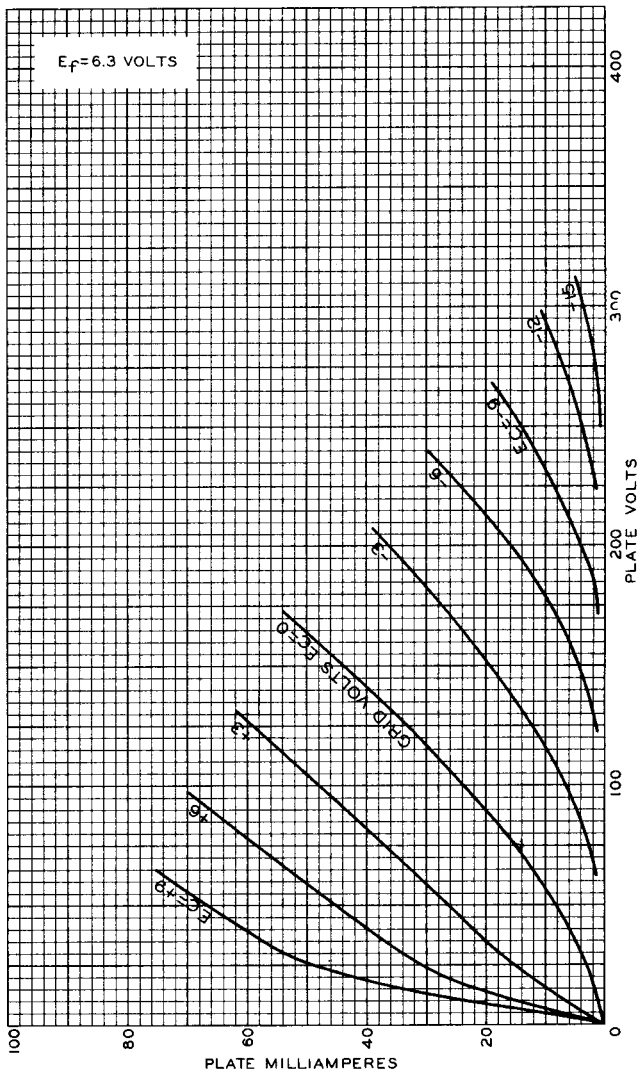
For fixed bias . . . . .	Not Recommended
For cathode bias . . . . .	0.5 max. megohm

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# AVERAGE PLATE CHARACTERISTICS



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TUBE DEPARTMENT  
RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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### TYPICAL CHARACTERISTICS

