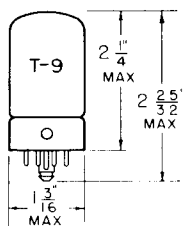


## TUNG-SOL

## PENTODE



GLASS BULB

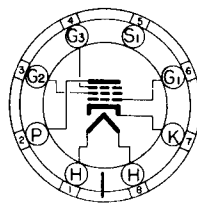
UNIPOENTIAL CATHODE

HEATER

6.3 VOLTS 150 MA.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

LOCK-IN 8 PIN BASE

THE 7AH7 IS A HEATER-CATHODE TYPE SEMI-REMOTE CUT-OFF PENTODE VOLTAGE AMPLIFIER USING THE LOCK-IN CONSTRUCTION. IT IS CHARACTERIZED BY MODERATELY HIGH TRANSCONDUCTANCE AND LOW INTERELECTRODE CAPACITANCES AS WELL AS ECONOMY OF HEATER POWER.

## DIRECT INTERELECTRODE CAPACITANCES

WITH RMA SHIELD #308 CONNECTED TO CATHODE

GRID TO PLATE: ( $G_1$ TO P) MAX.	0.005	$\mu\text{mf}$
INPUT: $G_1$ TO ( $H+K+G_2+G_3+IS$ )	7	$\mu\text{mf}$
OUTPUT: P TO ( $H+K+G_2+G_3+IS$ )	6.5	$\mu\text{mf}$

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	300	VOLTS
MINIMUM EXTERNAL GRID #1 VOLTS	-1	VOLTS
MAXIMUM PLATE DISSIPATION	2	WATTS
MAXIMUM GRID #2 DISSIPATION	0.7	WATT

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS  $A_1$  AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	150	MA.
PLATE VOLTAGE	250	VOLTS
GRID #3 VOLTAGE		
GRID #2 VOLTAGE	250	VOLTS
SELF BIAS RESISTOR <sup>A</sup>	250	OHMS
PLATE RESISTANCE (APPROX.)	1	MEG OHM
TRANSCONDUCTANCE	3 300	$\mu\text{MHOS}$
PLATE CURRENT	6.8	MA.
GRID #2 CURRENT	1.9	MA.
GRID #1 VOLTAGE (APPROX.) FOR $g_m = 35 \mu\text{MHOS}$	-20	VOLTS

<sup>A</sup> BIAS VOLTAGE IS APPROXIMATELY 2 VOLTS, BUT FIXED BIAS IS NOT RECOMMENDED.

# 7AH7

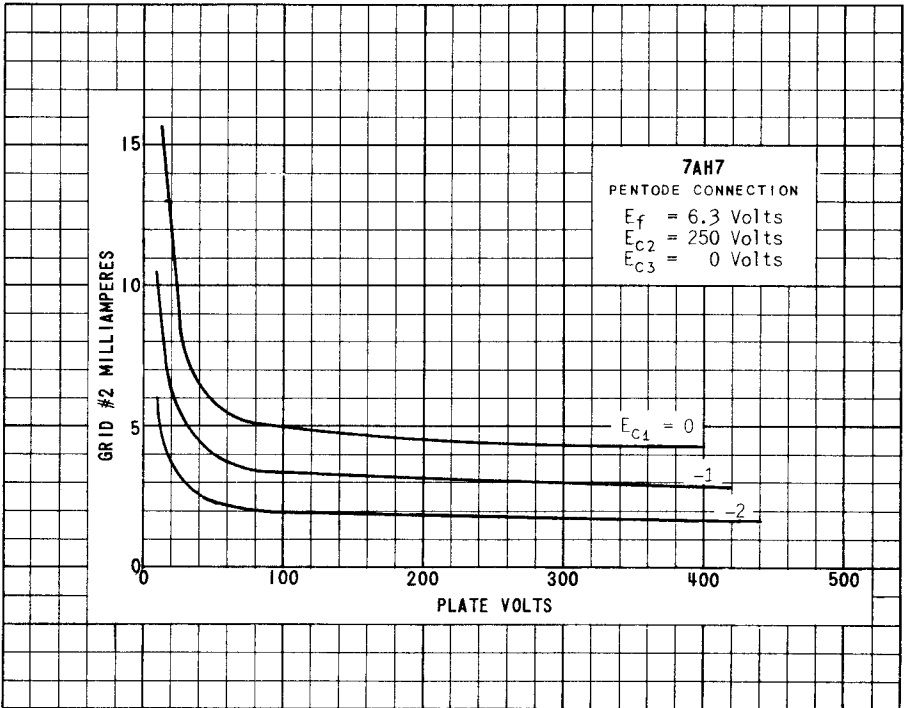
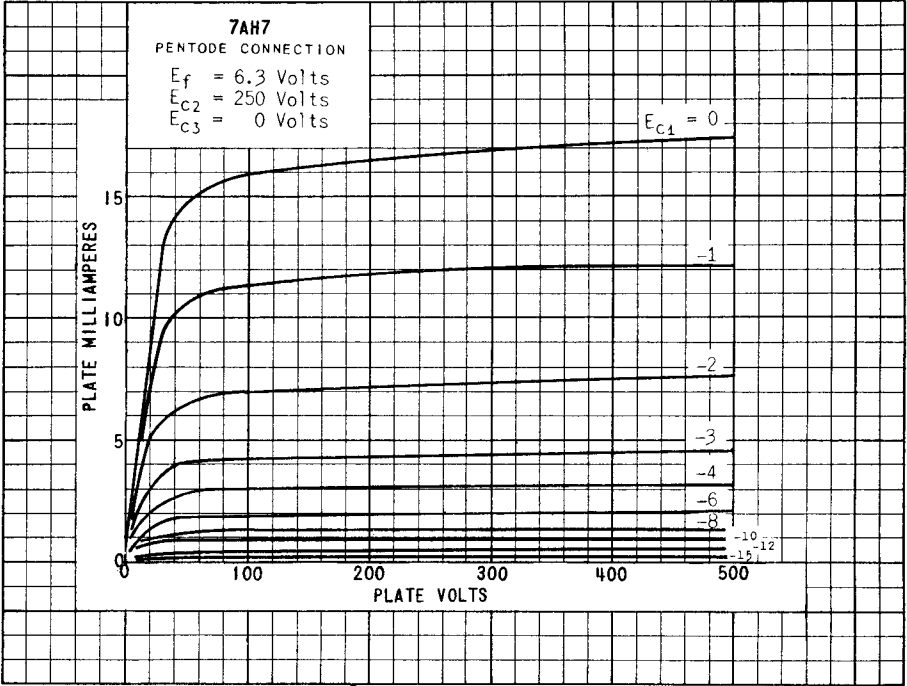


PLATE  
2115  
DEC. 1,  
1948

