

## TUNG-SOL

## PENTODE

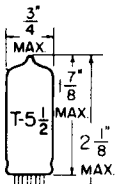
## MINIATURE TYPE

COATED UNIPOTENTIAL CATHODE

## HEATER

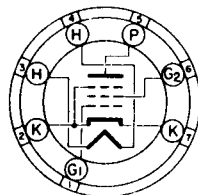
6.3 VOLTS 450 MA.

AC OR DC

HEATER VOLTAGE SHOULD NOT DEVIATE  
MORE THAN  $\pm 10$  PERCENT OF THE RATED  
VALUE.

GLASS BULB

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON  
7 PIN BASE

780

THE 6AN5 IS A HIGH EFFICIENCY POWER PENTODE IN THE MINIATURE CONSTRUCTION. IT IS CHARACTERIZED BY LOW INTERELECTRODE CAPACITANCES AND HIGH PERVEANCE WHICH ADAPT IT WELL TO HIGH FREQUENCY OR WIDE-BAND SERVICE.

## DIRECT INTERELECTRODE CAPACITANCES

WITH EXTERNAL SHIELD #316 CONNECTED TO CATHODE

GRID TO PLATE: ( $G_1$ TO P) MAX.	0.075	$\mu\mu\text{f}$
INPUT: $G_1$ TO ( $H+K+G_3+G_2$ )	.9	$\mu\mu\text{f}$
OUTPUT: P TO ( $H+K+G_3+G_2$ )	4.8	$\mu\mu\text{f}$

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-210

HEATER VOLTAGE	6.3	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	90	VOLTS
MAXIMUM PLATE VOLTAGE	120	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	120	300	VOLTS
MAXIMUM PLATE DISSIPATION	4.2	1.7	WATTS
MAXIMUM GRID #2 DISSIPATION	1.4	0.56	WATTS
MAXIMUM CATHODE CURRENT	50	20	MA.
MAXIMUM BULB TEMPERATURE	140	140	$^{\circ}\text{C}$

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS  $A_1$  AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	450	MA.
PLATE VOLTAGE	120	VOLTS
GRID #2 VOLTAGE	120	VOLTS
CATHODE RESISTOR <sup>A</sup>	120	OHMS
PLATE RESISTANCE (APPROX.)	12 500	OHMS
TRANSCONDUCTANCE	8 000	$\mu\text{MHOS}$
PLATE CURRENT	35	MA.
GRID #2 CURRENT	12	MA.
LOAD RESISTANCE	2 500	OHMS
POWER OUTPUT	1.3	WATTS
GRID #1 VOLTAGE FOR $i_b = 1$ MA. MAX.	-20	VOLTS

<sup>A</sup> FIXED BIAS OPERATION IS RECOMMENDED ONLY WHEN THE PLATE AND SCREEN DISSIPATION IS LESS THAN 70 PERCENT OF THE DESIGN CENTER MAXIMUM RATING. THE DC GRID CIRCUIT RESISTANCE SHOULD NOT EXCEED 100,000 OHMS FOR SELF BIAS OPERATION OR FOR THE LIMITED FIXED BIAS OPERATION DEFINED ABOVE. THE GRID CIRCUIT RESISTANCE SHOULD NOT EXCEED 250,000 FOR SELF BIAS OPERATION IN APPLICATIONS WHERE THE ABSOLUTE MAXIMUM HEATER VOLTAGE IS 6.6 VOLTS.

# 6AN5

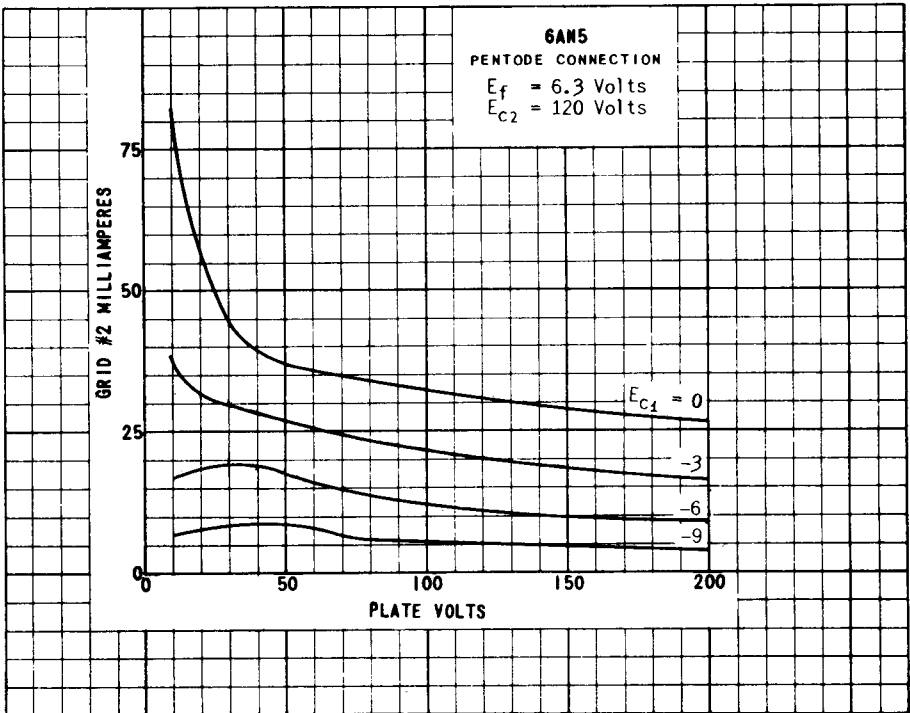
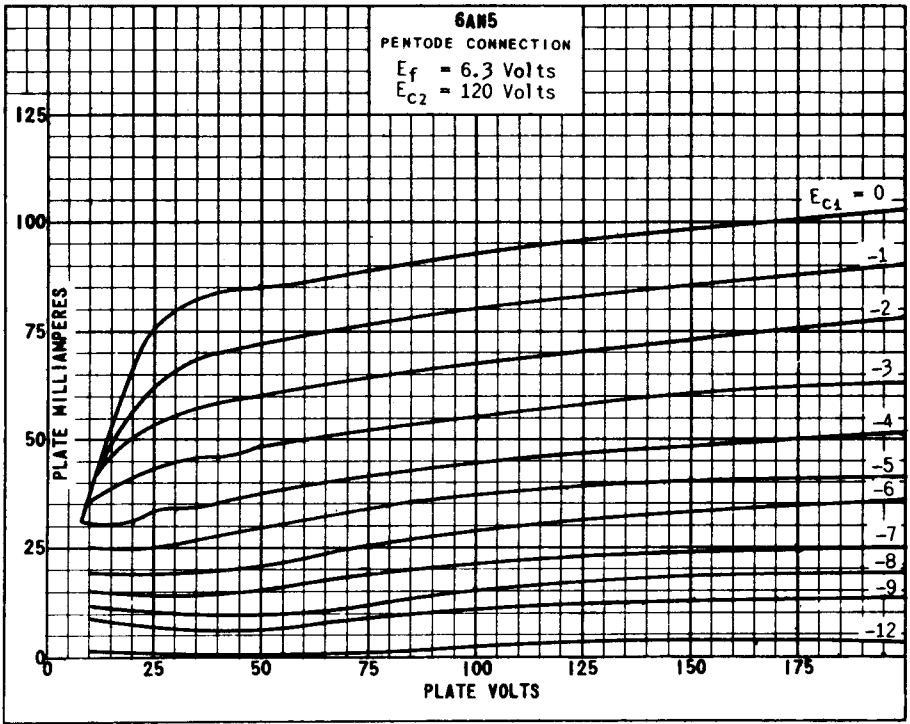


PLATE  
2194  
MAR. 1,  
1949