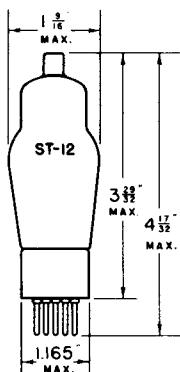


## TUNG-SOL



TRIODE PENTODE  
AMPLIFIER AND CONVERTER

UNIPOTENTIAL CATHODE

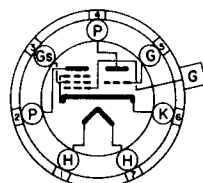
HEATER

6.3 VOLTS 0.3 AMPERE

AC OR DC

GLASS BULB

SMALL 7 PIN BASE



7E

BOTTOM VIEW

THE TUNG-SOL 6F7 COMBINES A TRIODE AND A REMOTE CUT-OFF PENTODE,  
UTILIZING A COMMON CATHODE, IN A SINGLE BULB.

## OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

	TRIODE UNIT	PENTODE UNIT	
PLATE VOLTAGE	100 MAX.	100	250 MAX. VOLTS
SCREEN VOLTAGE MAX.	-	100	100 VOLTS
CONTROL GRID VOLTAGE MIN.	-3	-3	-3 VOLTS
PLATE CURRENT	3.5	6.3	6.5 MA.
SCREEN CURRENT	-	1.6	1.5 MA.
PLATE RESISTANCE	0.016	0.29 <sup>A</sup>	0.85 <sup>A</sup> MEGOHM
TRANSCONDUCTANCE	500	1050	1100 μMHOS
AMPLIFICATION FACTOR	8	300 <sup>A</sup>	900 <sup>A</sup>
TRANSCONDUCTANCE AT -35 VOLTS BIAS	-	9	10 μMHOS

<sup>A</sup> APPROXIMATE

## CONVERTER SERVICE

	TRIODE UNIT	PENTODE UNIT	
PLATE VOLTAGE MAX.	100	250	VOLTS
SCREEN VOLTAGE MAX.	-	100	VOLTS
CONTROL GRID VOLTAGE	L	-3 MIN.	G VOLTS
OSCILLATOR PLATE CURRENT (AVERAGE)	4 MAX.	-	MA.

<sup>G</sup> GRID BIAS SHOULD BE AT LEAST 3 VOLTS GREATER THAN THE PEAK OSCILLATOR VOLTAGE  
APPLIED TO THE PENTODE GRID.

<sup>L</sup> OBTAINED BY MEANS OF A GRID LEAK.

CONTINUED NEXT PAGE

## TUNG-SOL

## TYPICAL OPERATION

	TRIODE UNIT	PENTODE UNIT	
PLATE VOLTAGE	100 <sup>P</sup>	250	VOLTS
SCREEN VOLTAGE	-	100	VOLTS
GRID BIAS	L	-10 <sup>B</sup>	VOLTS
PLATE CURRENT	2.4	2.8	MA.
SCREEN CURRENT	-	0.6	MA.
GRID CURRENT	0.15	0	MA.
PLATE RESISTANCE	-	2	MEGOHMS
CONVERSION CONDUCTANCE	-	300	μMHOS
OSCILLATOR PEAK VOLTAGE INPUT	-	7	VOLTS

<sup>B</sup> OBTAINED BY MEANS OF A 1700 OHMS CATHODE RESISTOR.

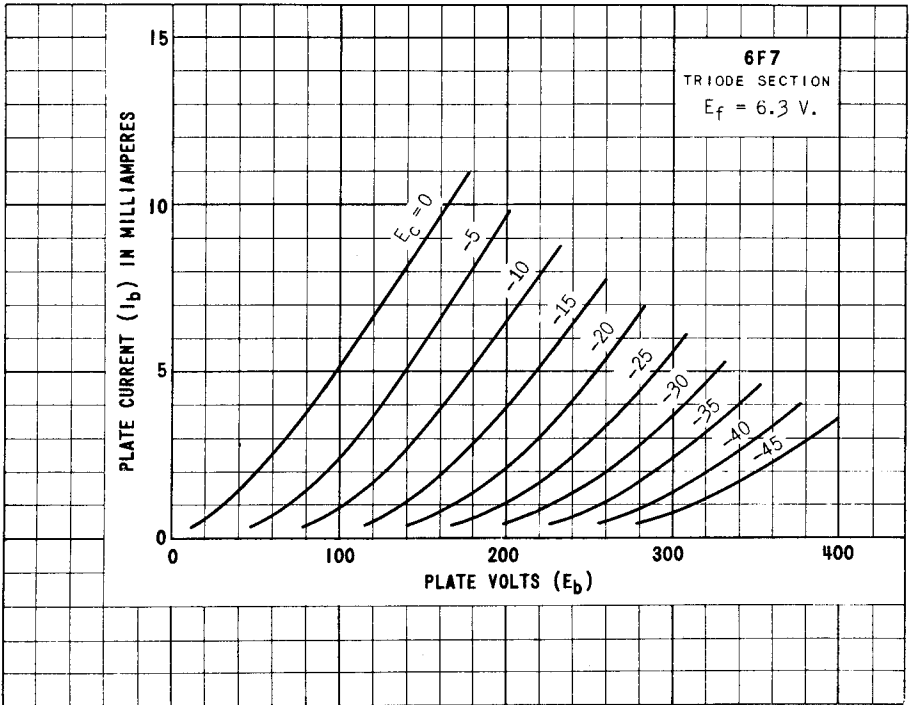
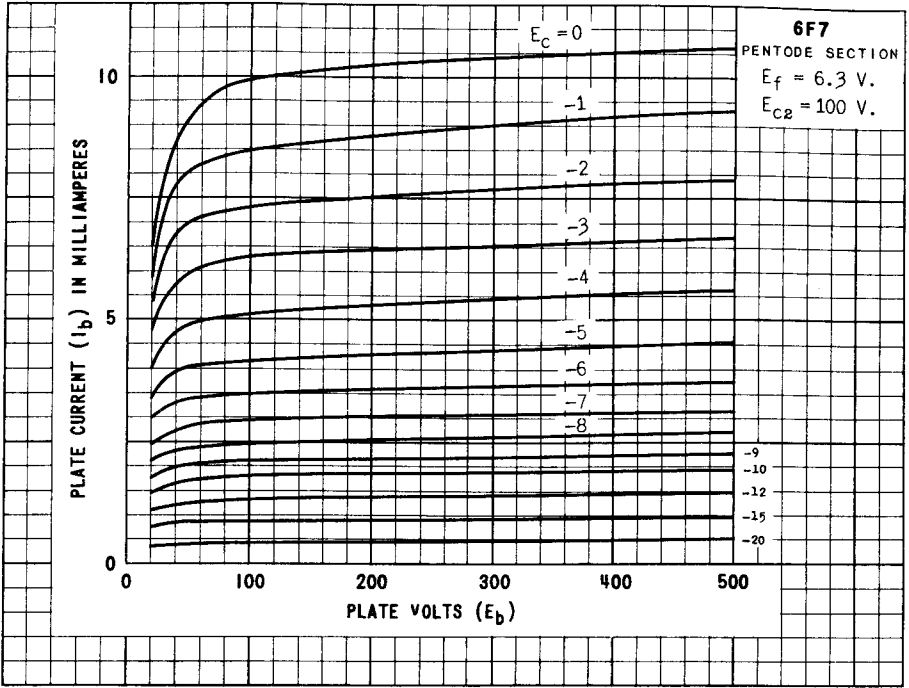
<sup>L</sup> OBTAINED BY MEANS OF A GRID LEAK.

<sup>P</sup> MAY BE OBTAINED FROM 250 VOLT SOURCE THROUGH 60 000 OHM DROPPING RESISTOR.

## DIRECT INTERELECTRODE CAPACITANCES

	TRIODE UNIT	PENTODE UNIT	
CONTROL GRID TO CATHODE	2.4	3.2	μf
PLATE TO CATHODE	3.0	13	μf
CONTROL GRID TO PLATE	2.0	.007 MAX. <sup>S</sup>	μf

<sup>S</sup> WITH SHIELD



PRINTED IN U. S. A.

PLATE  
 482-1  
 JUNE 26  
 1939

