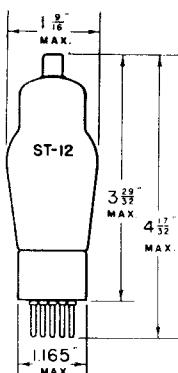


## TUNG-SOL



## PENTODE POWER AMPLIFIER

UNIPOTENTIAL CATHODE

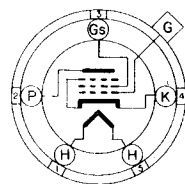
HEATER

6.3 VOLTS 0.3 AMPERE

AC OR DC

GLASS BULB

SMALL 5 PIN BASE



5 F

BOTTOM VIEW

THE TUNG-SOL 38 IS A PENTODE POWER AMPLIFIER DESIGNED FOR SERVICE IN THE OUTPUT STAGE OF AC OR STORAGE BATTERY OPERATED RECEIVERS.

## OPERATING CONDITIONS AND CHARACTERISTICS

## CLASS A AMPLIFIER

PLATE VOLTAGE	100	135	180	250 <sup>MAX.</sup>	VOLTS
SCREEN VOLTAGE	100	135	180	250 <sup>MAX.</sup>	VOLTS
CONTROL GRID VOLTAGE	-9	-13.5	-18	-25	VOLTS
PLATE CURRENT	7	9	14	22	MA.
SCREEN CURRENT	1.2	1.5	2.4	3.8	MA.
PLATE RESISTANCE	0.14	0.13	0.11	0.10	MEGOHM
TRANSCONDUCTANCE	875	925	1050	1200	μMHOS
AMPLIFICATION FACTOR	120	120	120	120	
LOAD RESISTANCE	15 000	13 500	11 600	10 000	OHMS
TOTAL HARMONIC DISTORTION	8	10	8	8	PER CENT
POWER OUTPUT	0.27	0.55	1.0	2.5	WATTS

NOTE: THE POTENTIAL DIFFERENCE BETWEEN HEATER AND CATHODE SHOULD BE KEPT AS LOW AS POSSIBLE.

## DIRECT INTERELECTRODE CAPACITANCES

CONTROL GRID TO CATHODE	3.5	μμf
PLATE TO CATHODE	7.5	μμf
CONTROL GRID TO PLATE	0.3	μμf

PLATE  
470-1

JUNE 26  
1939