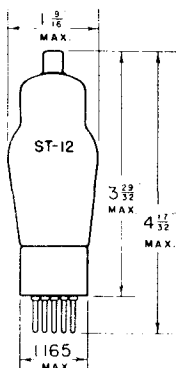


## TUNG-SOL



REMOTE CUT - OFF

PENTODE AMPLIFIER

UNIPOTENTIAL CATHODE

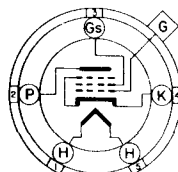
HEATER

6.3 VOLTS 0.3 AMPERE

AC OR DC

GLASS BULB

SMALL 5 PIN BASE



5 F

BOTTOM VIEW

THE TUNG-SOL 39/44 IS DESIGNED FOR USE AS AN RF AMPLIFIER OR MIXER IN AC AND STORAGE BATTERY OPERATED SUPERHETERODYNE RECEIVERS.

## OPERATING CONDITIONS AND CHARACTERISTICS

## CLASS A AMPLIFIER

|                                        |       |       |                     |        |
|----------------------------------------|-------|-------|---------------------|--------|
| PLATE VOLTAGE                          | 90    | 180   | 250 <sup>MAX.</sup> | VOLTS  |
| SCREEN VOLTAGE <sup>MAX.</sup>         | 90    | 90    | 90                  | VOLTS  |
| CONTROL GRID VOLTAGE <sup>MIN. A</sup> | -3    | -3    | -3                  | VOLTS  |
| PLATE CURRENT                          | 5.6   | 5.8   | 5.8                 | MA.    |
| SCREEN CURRENT                         | 1.6   | 1.4   | 1.4                 | MA.    |
| PLATE RESISTANCE                       | 0.375 | 0.75  | 1.0                 | MEGOHM |
| TRANSCONDUCTANCE                       | 960   | 1000  | 1050                | μMHOS  |
| AMPLIFICATION FACTOR                   | 360   | 750   | 1050                |        |
| CONTROL GRID VOLTAGE                   | -42.5 | -42.5 | -42.5               | VOLTS  |

FOR TRANSCONDUCTANCE = 2 μMHOS

<sup>A</sup> THE DC RESISTANCE IN THE GRID CIRCUIT SHOULD NOT EXCEED 3 MEGOHMS.

## AS MIXER IN SUPERHETERODYNE CIRCUIT

|                                |    |     |                     |       |
|--------------------------------|----|-----|---------------------|-------|
| PLATE VOLTAGE                  | 90 | 180 | 250 <sup>MAX.</sup> | VOLTS |
| SCREEN VOLTAGE <sup>MAX.</sup> | 90 | 90  | 90                  | VOLTS |
| CONTROL GRID VOLTAGE           | -7 | -7  | -7                  | VOLTS |

THIS GRID BIAS IS MINIMUM FOR AN OSCILLATOR PEAK VOLTAGE OF 6 VOLTS.

## DIRECT INTERELECTRODE CAPACITANCES

|                                    |                      |    |
|------------------------------------|----------------------|----|
| CONTROL GRID TO CATHODE            | 3.5                  | μf |
| PLATE TO CATHODE                   | 10                   | μf |
| CONTROL GRID TO PLATE <sup>S</sup> | .007 <sup>MAX.</sup> | μf |

<sup>S</sup> WITH SHIELDPLATE  
473-1