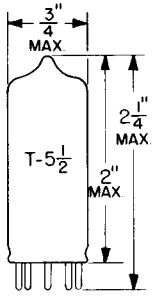
**TUNG-SOL**

# PENTODE

MINIATURE TYPE




**GLASS BULB**

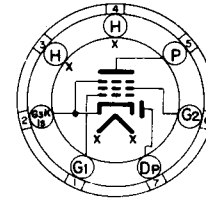
COATED UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 0.15 AMP.

AC OR DC

ANY MOUNTING POSITION




**BOTTOM VIEW**

MINIATURE BUTTON
7 PIN BASE

7FW

THE 12GN6 IS A REMOTE-CUTOFF PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED PRIMARILY FOR USE AS A HIGH GAIN R.F. OR I.F. AMPLIFIER AND A DEMODULATOR DIODE BOTH ON A COMMON CATHODE. EXCEPT FOR HEATER CHARACTERISTICS AND HEATER WARM-UP TIME, THE 12GN6 IS IDENTICAL TO THE 6GN6.

## DIRECT INTERELECTRODE CAPACITANCES

| | WITH[A] SHIELD | WITHOUT SHIELD | |
|---|---|---|---|
| GRID #1 TO PLATE (MAX.) | .0035 | .0035 | μμf |
| INPUT | 5.5 | 5.5 | μμf |
| OUTPUT | 5.5 | 5.0 | μμf |
| COUPLING DIODE PLATE TO GRID (MAX.) | .05 | .05 | μμf |

[A] WITH EXTERNAL SHIELD #316 CONNECTED TO PIN 2.

## RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

| | | |
|---|---|---|
| HEATER VOLTAGE | 12.6 | VOLTS |
| MAXIMUM PLATE VOLTAGE | 300 | VOLTS |
| MAXIMUM SCREEN-SUPPLY VOLTAGE | 300 | VOLTS |
| MAXIMUM POSITIVE GRID #1 VOLTAGE | 0 | VOLTS |
| MAXIMUM NEGATIVE GRID #1 VOLTAGE | 50 | VOLTS |
| MAXIMUM PLATE DISSIPATION | 3.0 | WATTS |
| MAXIMUM SCREEN DISSIPATION | 0.6 | WATTS |
| MAXIMUM DIODE CURRENT (CONTINUOUS OPERATION) | 1.0 | MA. |
| MAXIMUM HEATER-CATHODE VOLTAGE: | | |
| HEATER POSITIVE WITH RESPECT TO CATHODE | | |
| DC COMPONENT | --- | VOLTS |
| TOTAL DC PLUS PEAK | 100 | VOLTS |
| HEATER NEGATIVE WITH RESPECT TO CATHODE | | |
| TOTAL DC PLUS PEAK | 100 | VOLTS |

CONTINUED ON FOLLOWING PAGE

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS $A_1$ AMPLIFIER

| | | | |
|---|---|---|---|
| HEATER VOLTAGE | 12.6 | | VOLTS |
| HEATER CURRENT | 0.15 | | AMP. |
| PLATE VOLTAGE | 100 | 250 | VOLTS |
| SUPPRESSOR, CONNECTED TO CATHODE AT SOCKET | | | |
| SCREEN VOLTAGE | 100 | 100 | VOLTS |
| CATHODE-BIAS RESISTOR | 68 | 68 | OHMS |
| PLATE RESISTANCE (APPROX.) | 0.25 | 1.0 | MEGOHMS |
| TRANSCONDUCTANCE | 4300 | 4400 | μMHOS |
| PLATE CURRENT | 10.8 | 11 | MA. |
| SCREEN CURRENT | 4.4 | 4.2 | MA. |
| GRID #1 VOLTAGE (APPROX.) $G_m$ = 40 μMHOS | −20 | −20 | VOLTS |
| AVERAGE DIODE CURRENT AT 10V D.C. | 1.5 | 1.5 | MA. |