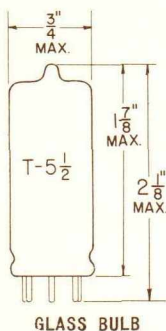


## TUNG-SOL

## PENTODE

## MINIATURE TYPE



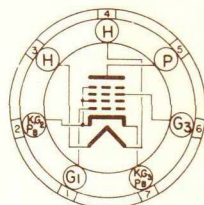
COATED UNIPOTENTIAL CATHODE

HEATER

 $6.3 \pm 10\%$  VOLTS 0.2 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON  
7 PIN BASE

7GA

THE 6FG5 IS A "SHADOW GRID" BEAM PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT HAS AN INTERNALLY CONNECTED GRID BETWEEN THE CONTROL GRID AND THE SCREEN GRID WHICH SERVES TO REDUCE THE RATIO OF SCREEN CURRENT TO PLATE CURRENT. THE TUBE IS DESIGNED FOR USE AS A RADIO-FREQUENCY AMPLIFIER IN VHF TELEVISION RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES  
WITHOUT EXTERNAL SHIELD

|                                   |      |                |
|-----------------------------------|------|----------------|
| GRID #1 TO PLATE (MAX.) (G1 TO P) | 0.02 | $\mu\text{uf}$ |
| INPUT: G1 TO (H+K+G2+G3+B.P.)     | 4.2  | $\mu\text{uf}$ |
| OUTPUT: P TO (H+K+G2+G3+B.P.)     | 2.8  | $\mu\text{uf}$ |

## RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

|                                         |                |          |
|-----------------------------------------|----------------|----------|
| HEATER VOLTAGE                          | $6.3 \pm 10\%$ | VOLTS    |
| MAXIMUM PLATE VOLTAGE                   | 275            | VOLTS    |
| MAXIMUM SCREEN VOLTAGE                  | 275            | VOLTS    |
| MAXIMUM POSITIVE DC GRID #1 VOLTAGE     | 0              | VOLTS    |
| MAXIMUM NEGATIVE DC GRID #1 VOLTAGE     | 50             | VOLTS    |
| MAXIMUM PLATE DISSIPATION               | 2.75           | WATTS    |
| MAXIMUM SCREEN DISSIPATION              | 0.15           | WATTS    |
| MAXIMUM DC CATHODE CURRENT              | 20             | MA.      |
| MAXIMUM HEATER-CATHODE VOLTAGE:         |                |          |
| HEATER POSITIVE WITH RESPECT TO CATHODE |                |          |
| DC COMPONENT                            | 100            | VOLTS    |
| TOTAL DC AND PEAK                       | 200            | VOLTS    |
| HEATER NEGATIVE WITH RESPECT TO CATHODE |                |          |
| TOTAL DC AND PEAK                       | 200            | VOLTS    |
| MAXIMUM GRID #1 CIRCUIT RESISTANCE      | 3.3            | MEG OHMS |

CONTINUED ON FOLLOWING PAGE

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

## AVERAGE CHARACTERISTICS

|                            |         |          |
|----------------------------|---------|----------|
| HEATER VOLTAGE             | 6.3±10% | VOLTS    |
| HEATER CURRENT             | 0.2     | AMP.     |
| PLATE VOLTAGE              | 250     | VOLTS    |
| SCREEN VOLTAGE             | 250     | VOLTS    |
| GRID #1 VOLTAGE            | -0.2    | VOLTS    |
| PLATE RESISTANCE (APPROX.) | 0.25    | MEG OHMS |
| TRANSCONDUCTANCE           | 9500    | μMHOS    |
| PLATE CURRENT              | 9.0     | MA.      |
| SCREEN CURRENT             | 0.42    | MA.      |

GRID #1 VOLTAGE (APPROX.)

 $G_m = 100 \mu\text{MHOS}$ 

-5 VOLTS

DESIGN-MAXIMUM RATINGS ARE LIMITING VALUES OF OPERATING AND ENVIRONMENTAL CONDITIONS APPLICABLE TO A BOGEY ELECTRON DEVICE OF A SPECIFIED TYPE AS DEFINED BY ITS PUBLISHED DATA, AND SHOULD NOT BE EXCEEDED UNDER THE WORST PROBABLE CONDITIONS. THE DEVICE MANUFACTURER CHOOSES THESE VALUES TO PROVIDE ACCEPTABLE SERVICEABILITY OF THE DEVICE, TAKING RESPONSIBILITY FOR THE EFFECTS OF CHANGES IN OPERATING CONDITIONS DUE TO VARIATIONS IN DEVICE CHARACTERISTICS. THE EQUIPMENT MANUFACTURER SHOULD DESIGN SO THAT INITIALLY AND THROUGHOUT LIFE NO DESIGN-MAXIMUM VALUE FOR THE INTENDED SERVICE IS EXCEEDED WITH A BOGEY DEVICE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, SIGNAL VARIATION, AND ENVIRONMENTAL CONDITIONS.

6FG5

 $E_f = 6.3 \text{ Volts}$  $E_{c3} = 250 \text{ Volts}$ 