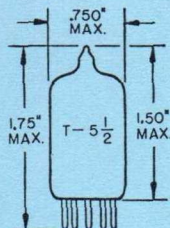


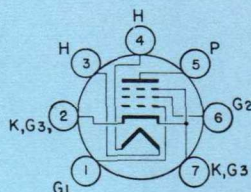
## TUNG-SOL

OUTLINE DRAWING  
JEDEC 5-1GLASS BULB  
MINIATURE BUTTON  
7 PIN E-1

PENTODE  
MINIATURE TYPE  
FOR  
COMMERCIAL AND INDUSTRIAL  
RF APPLICATIONS

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION

BASING DIAGRAM  
JEDEC 7BD

BOTTOM VIEW

THE 6028 IS A SHARP-CUTOFF PENTODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS INTENDED FOR RF APPLICATIONS WHERE A HIGH DEGREE OF RELIABILITY IS REQUIRED. THE TUBE IS CHARACTERIZED BY LONG LIFE AND STABLE PERFORMANCE.

## DIRECT INTERELECTRODE CAPACITANCES

WITH SHIELD #316 CONNECTED TO CATHODE

|                 |      |      |    |
|-----------------|------|------|----|
| GRID 1 TO PLATE | MAX. | 0.02 | pf |
| INPUT           |      | 3.9  | pf |
| OUTPUT          |      | 2.85 | pf |

## HEATER CHARACTERISTICS AND RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

|                                         |            |          |       |
|-----------------------------------------|------------|----------|-------|
| AVERAGE CHARACTERISTICS                 | 20.0 VOLTS | 50       | mA    |
| LIMITS OF APPLIED VOLTAGE               |            | 20.0±1.0 | VOLTS |
| HEATER-CATHODE VOLTAGE:                 |            |          |       |
| HEATER NEGATIVE WITH RESPECT TO CATHODE |            | 75       | VOLTS |
| HEATER POSITIVE WITH RESPECT TO CATHODE |            | 75       | VOLTS |

## MAXIMUM RATINGS

ABSOLUTE MAXIMUM RATINGS - SEE EIA STANDARD RS-239

|                                                         |                  |       |
|---------------------------------------------------------|------------------|-------|
| PLATE VOLTAGE                                           | 200              | VOLTS |
| GRID 2 SUPPLY VOLTAGE                                   | 155              | VOLTS |
| GRID 2 VOLTAGE                                          | SEE RATING CHART |       |
| CATHODE CURRENT                                         | 20               | mA    |
| PLATE DISSIPATION                                       | 1.85             | WATTS |
| GRID 2 DISSIPATION FOR GRID 2 VOLTAGES UP TO 77.5 VOLTS | 0.55             | WATT  |

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

|                                               |                  |
|-----------------------------------------------|------------------|
| PLATE SUPPLY VOLTAGE                          | 120 VOLTS        |
| GRID 2 SUPPLY VOLTAGE                         | 120 VOLTS        |
| CATHODE RESISTOR (FIXED BIAS NOT RECOMMENDED) | 200 OHMS         |
| GRID 1 VOLTAGE                                | 0 VOLTS          |
| PLATE CURRENT                                 | 7 mA             |
| GRID 2 CURRENT                                | 2.25 mA          |
| TRANSCONDUCTANCE                              | 4,950 $\mu$ MHOS |
| PLATE RESISTANCE (APPROX.)                    | 0.34 MEGOHM      |
| GRID 1 VOLTAGE FOR $I_b = 200 \mu A$ MAX.     | -10 VOLTS        |

