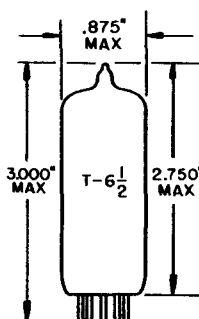


**TUNG-SOL****BEAM PENTODE**

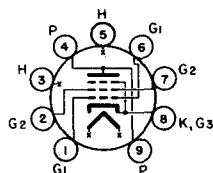
MINIATURE TYPE

FOR  
MOBILE EQUIPMENT  
APPLICATIONS



COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



**BOTTOM VIEW  
BASING DIAGRAM  
JEDEC 9DH**

**HARD GLASS ENVELOPE  
MINIATURE BASE E9-1  
9PINS-GOLD PLATED TUNGSTEN**

THE 6094 IS A BEAM POWER PENTODE IN A T-6 1/2 HARD GLASS ENVELOPE. IT IS DESIGNED FOR SERVICE IN EQUIPMENT WITH HIGH AMBIENT TEMPERATURES AND WHERE HIGH LEVELS OF VIBRATION, SHOCK AND OTHER ACCELERATIONS ARE ENCOUNTERED.

**DIRECT INTERELECTRODE CAPACITANCES**

WITHOUT EXTERNAL SHIELD

|                 |      |    |
|-----------------|------|----|
| GRID 1 TO PLATE | 1.45 | pf |
| INPUT           | 8.5  | pf |
| OUTPUT          | 5.3  | pf |

**HEATER CHARACTERISTICS AND RATINGS**

ABSOLUTE MAXIMUM RATING SYSTEM - SEE EIA STANDARD RS-239

|                                  |     |       |           |       |
|----------------------------------|-----|-------|-----------|-------|
| AVERAGE CHARACTERISTICS          | 6.3 | VOLTS | 600       | MA    |
| LIMITS OF APPLIED VOLTAGE        |     |       | 6.3 ± 0.3 | VOLTS |
| LIMITS OF HEATER-CATHODE VOLTAGE |     |       | 450       | VOLTS |

**TUNG-SOL**

CONTINUED FROM PRECEDING PAGE

**MAXIMUM RATINGS**

ABSOLUTE MAXIMUM RATING SYSTEM - SEE EIA STANDARD RS-239

|                         |        |       |
|-------------------------|--------|-------|
| PLATE VOLTAGE           | 275    | VOLTS |
| POSITIVE GRID 1 VOLTAGE | 5      | VOLTS |
| GRID 2 VOLTAGE          | 275    | VOLTS |
| PLATE DISSIPATION       | 12.5   | WATTS |
| GRID 2 DISSIPATION      | 2.0    | WATTS |
| CATHODE CURRENT         | 75     | MA    |
| ALTITUDE                | 60,000 | FT    |
| ENVELOPE TEMPERATURE    | +300°  | C     |

**AVERAGE CHARACTERISTICS**

|                  |       |       |
|------------------|-------|-------|
| PLATE VOLTAGE    | 250   | VOLTS |
| GRID 2 VOLTAGE   | 250   | VOLTS |
| GRID 1 VOLTAGE   | -12.5 | VOLTS |
| PLATE CURRENT    | 45    | MA    |
| GRID 2 CURRENT   | 3.5   | MA    |
| TRANSCONDUCTANCE | 4,100 | μMHOS |

**TYPICAL OPERATION**

|                       |       |           |
|-----------------------|-------|-----------|
| PLATE VOLTAGE         | 250   | VOLTS     |
| GRID 2 VOLTAGE        | 250   | VOLTS     |
| GRID 1 VOLTAGE        | -12.5 | VOLTS     |
| GRID 1 SIGNAL VOLTAGE | 8.8   | VOLTS RMS |
| LOAD RESISTANCE       | 5,000 | OHMS      |
| POWER OUTPUT          | 4.5   | WATTS     |

**ADDITIONAL TESTS**

HEATER CYCLING  
 HIGH TEMPERATURE LIFE  
 HIGH LEVEL FATIGUE  
 SHOCK

