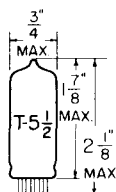


## TUNG-SOL

PENTODE  
MINIATURE TYPE

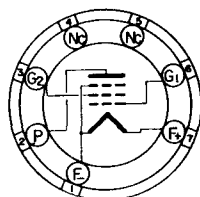
GLASS BULB

COATED FILAMENT

1.4 VOLTS 50 MA.

DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE BUTTON  
7 PIN BASE

58Z

THE 1W4 IS A POWER AMPLIFIER PENTODE USING THE MINIATURE CONSTRUCTION. IT IS DESIGNED FOR SERVICE IN LOW DRAIN BATTERY OPERATED RECEIVERS.

## DIRECT INTERELECTRODE CAPACITANCES

|                                                              | WITHOUT SHIELD | WITH SHIELD <sup>A</sup> |     |
|--------------------------------------------------------------|----------------|--------------------------|-----|
| GRID TO PLATE: (G <sub>1</sub> TO P)                         | 0.12           | 0.1                      | μuf |
| INPUT: G <sub>1</sub> TO (F&G <sub>3</sub> +G <sub>2</sub> ) | 3.4            | 3.6                      | μuf |
| OUTPUT: P TO (F&G <sub>3</sub> +G <sub>2</sub> )             | 3.6            | 7                        | μuf |

<sup>A</sup> EXTERNAL SHIELD #316 CONNECTED TO PIN 1.

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

|                                    |     |        |
|------------------------------------|-----|--------|
| FILAMENT VOLTAGE                   | 1.4 | VOLTS  |
| MAXIMUM PLATE VOLTAGE              | 110 | VOLTS  |
| MAXIMUM GRID #2 VOLTAGE            | 110 | VOLTS  |
| MAXIMUM CATHODE CURRENT            | 6   | MA.    |
| MAXIMUM GRID #1 CIRCUIT RESISTANCE | 1   | MEGOHM |

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

|                                |        |        |        |        |         |
|--------------------------------|--------|--------|--------|--------|---------|
| FILAMENT VOLTAGE               | 1.4    | 1.4    | 1.4    | 1.4    | VOLTS   |
| FILAMENT CURRENT               | 50     | 50     | 50     | 50     | MA.     |
| PLATE VOLTAGE                  | 45     | 62.5   | 67.5   | 90     | VOLTS   |
| GRID #2 VOLTAGE                | 45     | 62.5   | 67.5   | 90     | VOLTS   |
| GRID #1 VOLTAGE                | -4.5   | -5     | -6     | -9     | VOLTS   |
| PEAK AF GRID #1 SIGNAL VOLTAGE | 4.5    | 5      | 6      | 9      | VOLTS   |
| PLATE RESISTANCE               | 0.4    | 0.3    | 0.3    | 0.25   | MEGOHM  |
| TRANSCONDUCTANCE               | 650    | 875    | 875    | 925    | μMHOS   |
| ZERO SIGNAL PLATE CURRENT      | 1.6    | 3.8    | 3.8    | 5      | MA.     |
| ZERO SIGNAL GRID #2 CURRENT    | 0.2    | 0.8    | 0.8    | 1      | MA.     |
| LOAD RESISTANCE                | 20 000 | 16 000 | 16 000 | 12 000 | OHMS    |
| TOTAL HARMONIC DISTORTION      | 10     | 10     | 10     | 10     | PERCENT |
| POWER OUTPUT                   | 35     | 90     | 100    | 200    | MW.     |

SIMILAR TYPE REFERENCE: Ratings and characteristics identical to type 1L84 and to pentode section of 1D8GT.