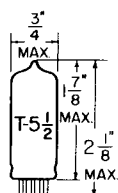


**TUNG-SOL**

**PENTODE**

MINIATURE TYPE



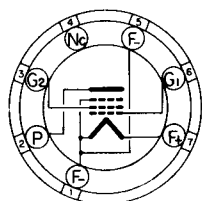
**GLASS BULB**

COATED FILAMENT

1.4 VOLTS 25 MA.

AC OR DC

ANY MOUNTING POSITION



**BOTTOM VIEW**  
MINIATURE BUTTON  
7 PIN BASE

6AR

THE 1AF4 IS A FILAMENTARY TYPE VOLTAGE AMPLIFIER PENTODE USING THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED SPECIFICALLY FOR USE IN PORTABLE RECEIVERS AS AN AF OR RF AMPLIFIER. THE FILAMENT POWER CONSUMPTION HAS BEEN CUT IN HALF WITH RESPECT TO TUBES PREVIOUSLY USED IN THIS SERVICE.

**DIRECT INTERELECTRODE CAPACITANCES**

|   | WITHOUT SHIELD | WITH SHIELD <sup>A</sup> |     |
|---|----------------|--------------------------|-----|
| GRID TO PLATE: (G <sub>1</sub> TO P) MAX.                       | 0.008          | 0.008                    | μμf |
| INPUT: G <sub>1</sub> TO (F&G <sub>3</sub> &IS+G <sub>2</sub> ) | 3.8            | 3.8                      | μμf |
| OUTPUT: P TO (F&G <sub>3</sub> &IS+G <sub>2</sub> )             | 7.5            | 7.6                      | μμf |

<sup>A</sup> SHIELD #316 CONNECTED TO PINS 1 AND 5.

**RATINGS**

INTERPRETED ACCORDING TO RMA STANDARD M8-210

|                                  |     |       |
|----------------------------------|-----|-------|
| FILAMENT VOLTAGE                 | 1.4 | VOLTS |
| MAXIMUM PLATE VOLTAGE            | 110 | VOLTS |
| MAXIMUM GRID #2 VOLTAGE          | 90  | VOLTS |
| MAXIMUM GRID #2 SUPPLY VOLTAGE   | 110 | VOLTS |
| MAXIMUM POSITIVE GRID #1 VOLTAGE | 0   | VOLTS |
| MAXIMUM CATHODE CURRENT          | 2.5 | MA.   |

**TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS**

CLASS A<sub>1</sub> AMPLIFIER

|   |      |      |          |
|---|------|------|----------|
| FILAMENT VOLTAGE                              | 1.4  | 1.4  | VOLTS    |
| FILAMENT CURRENT                              | 25   | 25   | MA.      |
| PLATE VOLTAGE                                 | 67.5 | 90   | VOLTS    |
| GRID #2 VOLTAGE                               | 67.5 | 90   | VOLTS    |
| GRID #1 VOLTAGE                               | 0    | 0    | VOLTS    |
| PLATE RESISTANCE                              | 2    | 1.8  | MEG OHMS |
| TRANSCONDUCTANCE                              | 825  | 950  | μMHOS    |
| PLATE CURRENT                                 | 1    | 1.65 | MA.      |
| GRID #2 CURRENT                               | 0.3  | 0.5  | MA.      |
| GRID #1 VOLTAGE FOR G <sub>m</sub> = 10 μMHOS | -2.5 | -3.5 | VOLTS    |

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PLATE  
2429  
JULY 1  
1950