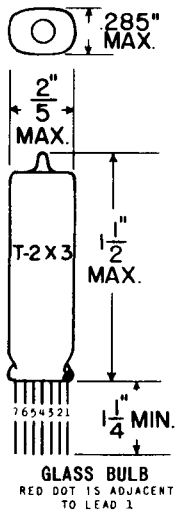


## TUNG-SOL

## TRIODE PENTODE

SUBMINIATURE TYPE

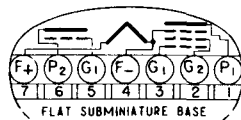


COATED FILAMENT

1.25 VOLTS 0.04 AMP.

AC OR DC

ANY MOUNTING POSITION



## BOTTOM VIEW

0.016" TINNED  
FLEXIBLE LEADS  
0.05" SPACING  
CENTER-TO-CENTER

THE IV6 IS A FILAMENT TYPE COMBINED TRIODE-PENTODE DESIGNED FOR SERVICE AS A CONVERTER IN RADIO RECEIVERS AND OTHER PORTABLE EQUIPMENT WHERE SMALL SIZE, LIGHT WEIGHT, AND LOW BATTERY DRAIN ARE IMPORTANT. THE FLEXIBLE TERMINAL LEADS MAY BE SOLDERED OR WELDED DIRECTLY TO CIRCUIT COMPONENTS WITHOUT THE USE OF SOCKETS. STANDARD SUBMINIATURE SOCKETS MAY BE USED BY CUTTING THE LEADS TO 0.20" LENGTH.

## DIRECT INTERELECTRODE CAPACITANCES

WITH CLOSE FITTING SHIELD CONNECTED TO FILAMENT, NEGATIVE

|                                   |      |                  |
|-----------------------------------|------|------------------|
| TRIODE GRID #1 TO PENTODE GRID #1 | 0.75 | $\mu\mu\text{f}$ |
| PENTODE GRID #1 PENTODE PLATE     | 0.05 | $\mu\mu\text{f}$ |
| PENTODE GRID #1 TO TRIODE PLATE   | 0.12 | $\mu\mu\text{f}$ |
| TRIODE GRID #1 TO TRIODE PLATE    | 1.2  | $\mu\mu\text{f}$ |
| PENTODE GRID #1 TO ALL            | 3.2  | $\mu\mu\text{f}$ |
| TRIODE GRID #1 TO ALL             | 4.0  | $\mu\mu\text{f}$ |
| TRIODE PLATE TO ALL               | 1.9  | $\mu\mu\text{f}$ |
| PENTODE PLATE TO ALL              | 2.4  | $\mu\mu\text{f}$ |

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

## DESIGN CENTER VALUES

|                           |                |       |
|---------------------------|----------------|-------|
| FILAMENT VOLTAGE          | 1.25           | VOLTS |
| PLATE VOLTAGE (PENTODE)   | 90             | VOLTS |
| GRID #2 VOLTAGE           | 90             | VOLTS |
| PLATE VOLTAGE (TRIODE)    | 90             | VOLTS |
| GRID #1 VOLTAGE (PENTODE) | NEVER POSITIVE |       |
| TOTAL CATHODE CURRENT     | 1.5            | MA.   |

CONTINUED ON FOLLOWING PAGE

→ INDICATES A CHANGE.

**TUNG-SOL**

CONTINUED FROM PRECEDING PAGE

**TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS****FREQUENCY CONVERTER**

|                                                                                   |      |        |
|-----------------------------------------------------------------------------------|------|--------|
| FILAMENT VOLTAGE                                                                  | 1.25 | VOLTS  |
| FILAMENT CURRENT                                                                  | 0.04 | AMP.   |
| PLATE VOLTAGE (PENTODE)                                                           | 45   | VOLTS  |
| GRID #2 VOLTAGE                                                                   | 45   | VOLTS  |
| PLATE VOLTAGE (TRIODE)                                                            | 45   | VOLTS  |
| GRID #1 VOLTAGE (PENTODE) <sup>B</sup>                                            | 0    | VOLTS  |
| GRID #1 RESISTOR (OSCILLATOR) <sup>C</sup>                                        | 1    | MEGOHM |
| PLATE CURRENT (PENTODE)                                                           | 400  | μAMP.  |
| GRID #2 CURRENT (PENTODE)                                                         | 150  | μAMP.  |
| CONVERSION PLATE RESISTANCE (APPROX.)                                             | 1.0  | MEGOHM |
| PLATE CURRENT (TRIODE) APPROX.                                                    | 400  | μAMP.  |
| GRID #1 CURRENT (OSCILLATOR)                                                      | 12   | μAMP.  |
| CONVERSION TRANSCONDUCTANCE                                                       | 200  | μMHOS  |
| GRID #1 VOLTAGE (PENTODE) (APPROX.)<br>FOR CONVERSION TRANSCONDUCTANCE = 5 μMHOS. | 3.5  | VOLTS  |

<sup>B</sup> GRID #1 RESISTOR = 5 MEGOHMS.<sup>C</sup> GRID COUPLING CONDENSER = 10 μMFD.