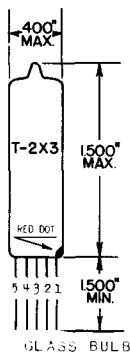


## TUNG-SOL

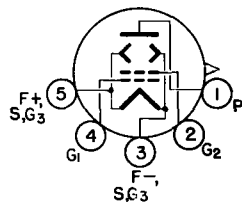
PENTODE  
SUBMINIATURE TYPE

GLASS BULB  
COLOR DOT IS ADJACENT  
TO LEAD 1

COATED FILAMENT

1.25 VOLTS      50 MA.  
DC

ANY MOUNTING POSITION



BOTTOM VIEW  
0.016" TINNED  
FLEXIBLE LEADS  
0.048" SPACING  
CENTER-TO-CENTER

GRID #3 IS COMPRISED OF  
TWO SEPARATE BEAM PLATES,  
ONE OF WHICH IS CONNECTED  
TO LEAD #3 THE OTHER TO  
LEAD #5

THE 5678 IS A FILAMENT TYPE, SUBMINIATURE PENTODE DESIGNED FOR SERVICE IN RF APPLICATIONS REQUIRING ECONOMY OF SPACE, WEIGHT AND BATTERY DRAIN. A COATED METALLIC SHIELD IS USED AND CONNECTED TO LEAD #3. THE FLEXIBLE TERMINAL LEADS MAY BE SOLDERED OR WELDED 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

|                      |      |    |
|----------------------|------|----|
| GRID TO PLATE (MAX.) | 0.01 | pf |
| INPUT                | 3.3  | pf |
| OUTPUT               | 3.8  | pf |

## RATINGS

INTERPRETED ACCORDING TO DESIGN-MAXIMUM SYSTEM

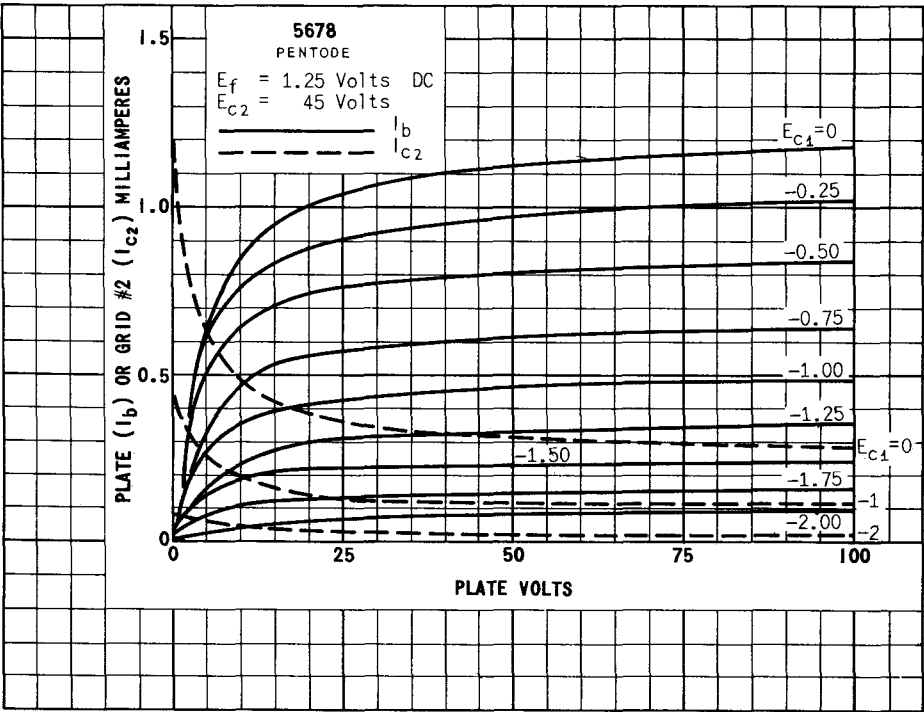
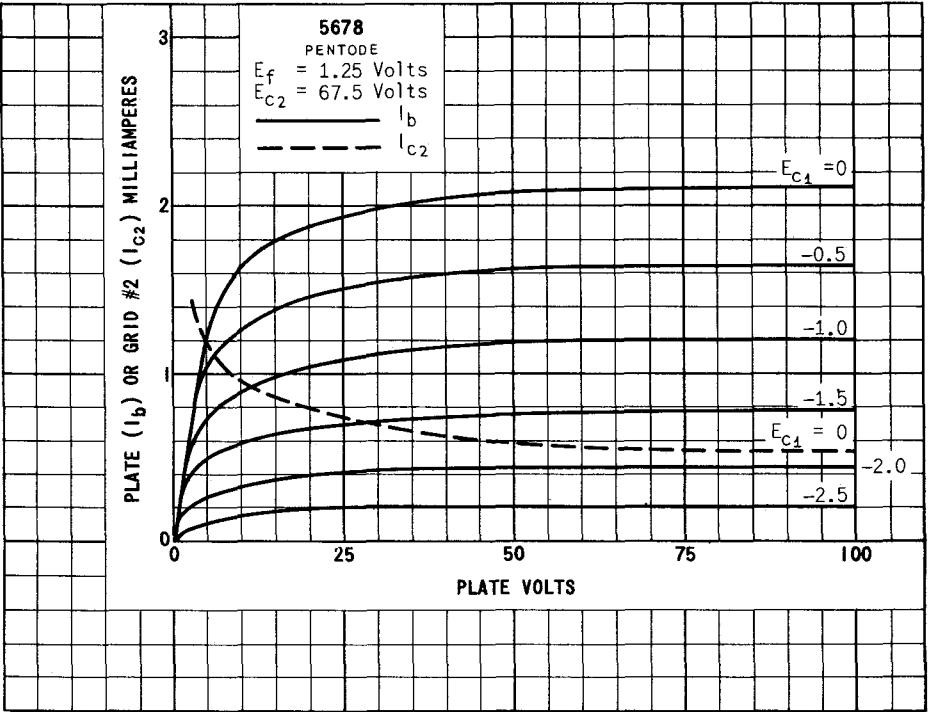
|                         |      |       |
|-------------------------|------|-------|
| MAXIMUM PLATE VOLTAGE   | 90   | VOLTS |
| MAXIMUM GRID #2 VOLTAGE | 67.5 | VOLTS |

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

|                                                              |      |       |         |
|--------------------------------------------------------------|------|-------|---------|
| PLATE VOLTAGE                                                | 45   | 67.5  | VOLTS   |
| GRID #2 VOLTAGE                                              | 45   | 67.5  | VOLTS   |
| GRID #1 VOLTAGE <sup>A</sup>                                 | 0    | 0     | VOLTS   |
| PLATE RESISTANCE                                             | 1.2  | 1.0   | MEGOHMS |
| TRANSCONDUCTANCE                                             | 820  | 1 100 | μMHOS   |
| PLATE CURRENT                                                | 0.8  | 1.8   | MA.     |
| GRID #2 CURRENT                                              | 0.22 | 0.48  | MA.     |
| GRID #1 VOLTAGE (APPROX.) FOR<br>TRANSCONDUCTANCE = 10 μMHOS | -3   | -4    | VOLTS   |

<sup>A</sup> GRID RESISTOR = 5 MEGOHMS.



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