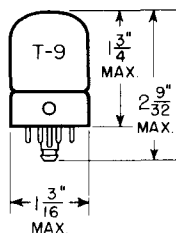


## TUNG-SOL

## PENTODE



GLASS BULB

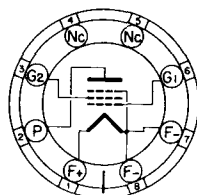
COATED FILAMENT

FILAMENT

1.2 VOLTS 130 MA.

DC

ANY MOUNTING POSITION



BOTTOM VIEW

LOCK-IN  
8 PIN BASE

58F

THE 1AB5 IS A FILAMENTARY TYPE PENTODE VOLTAGE AMPLIFIER USING THE LOCK-IN CONSTRUCTION. IT IS DESIGNED FOR USE AS A MIXER OR RF AMPLIFIER IN CIRCUITS REQUIRING A TUBE WITH HIGHER TRANSCONDUCTANCE THAN THE 1LN5.

## DIRECT INTERELECTRODE CAPACITANCES

WITH RMA SHIELD #308 CONNECTED TO NEGATIVE FILAMENT

|                                      |      |               |
|--------------------------------------|------|---------------|
| GRID TO PLATE: ( $G_1$ TO $P$ ) MAX. | 0.25 | $\mu\text{f}$ |
| INPUT: $G_1$ TO ( $F+G_2+G_3$ )      | 2.8  | $\mu\text{f}$ |
| OUTPUT: $P$ TO ( $F+G_2+G_3$ )       | 4.2  | $\mu\text{f}$ |

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

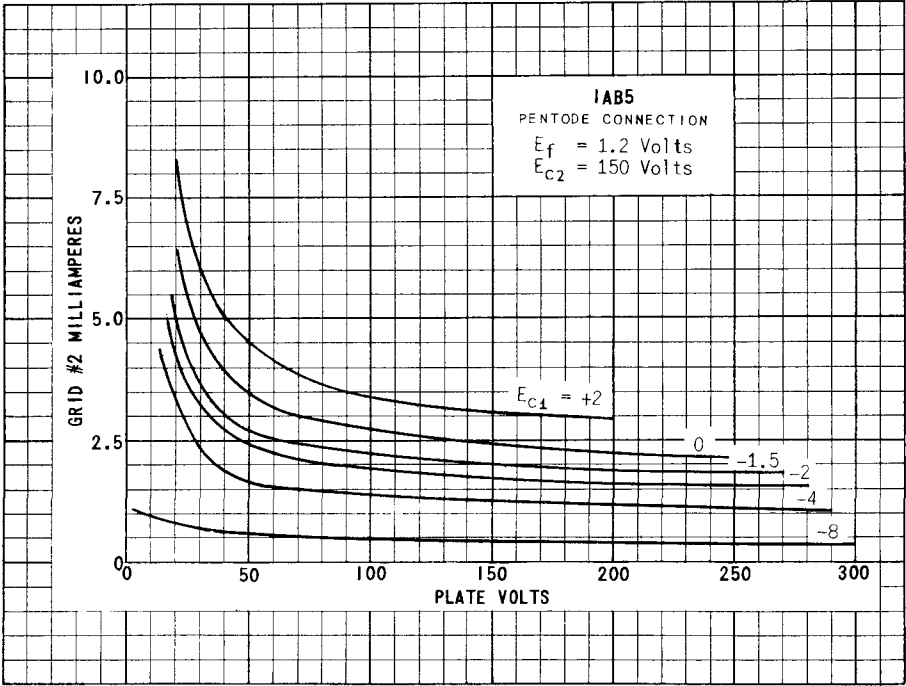
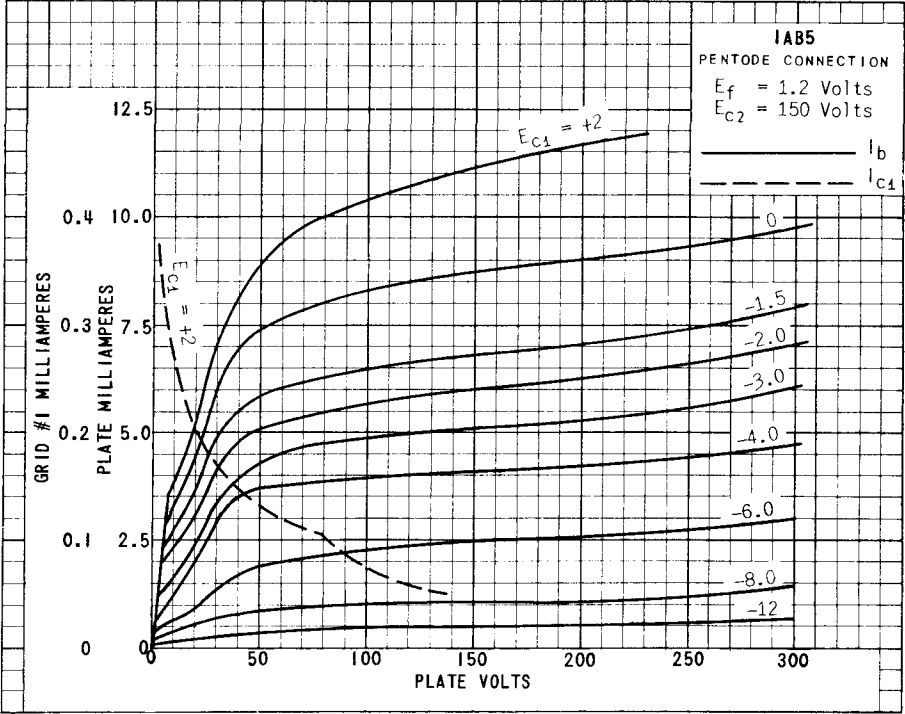
|                                     |     |       |
|-------------------------------------|-----|-------|
| FILAMENT VOLTAGE                    | 1.2 | VOLTS |
| FILAMENT CURRENT                    | 130 | MA.   |
| MAXIMUM PLATE VOLTAGE               | 150 | VOLTS |
| MAXIMUM GRID #2 VOLTAGE             | 150 | VOLTS |
| MAXIMUM POSITIVE DC GRID #1 VOLTAGE | 0   | VOLTS |
| MAXIMUM PLATE DISSIPATION           | 1   | WATT  |
| MAXIMUM GRID #2 DISSIPATION         | 0.3 | WATT  |

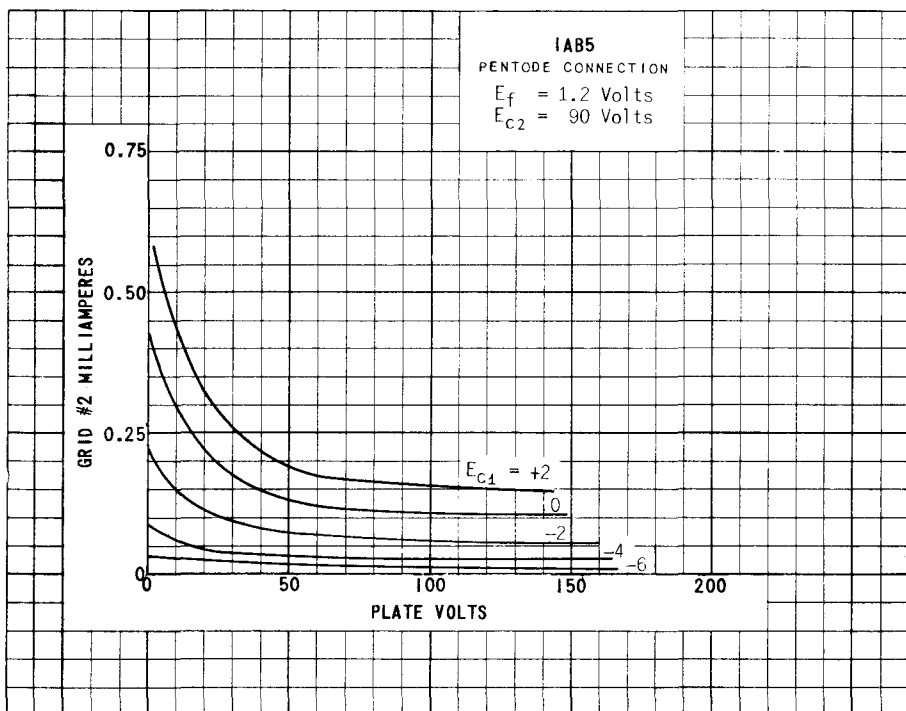
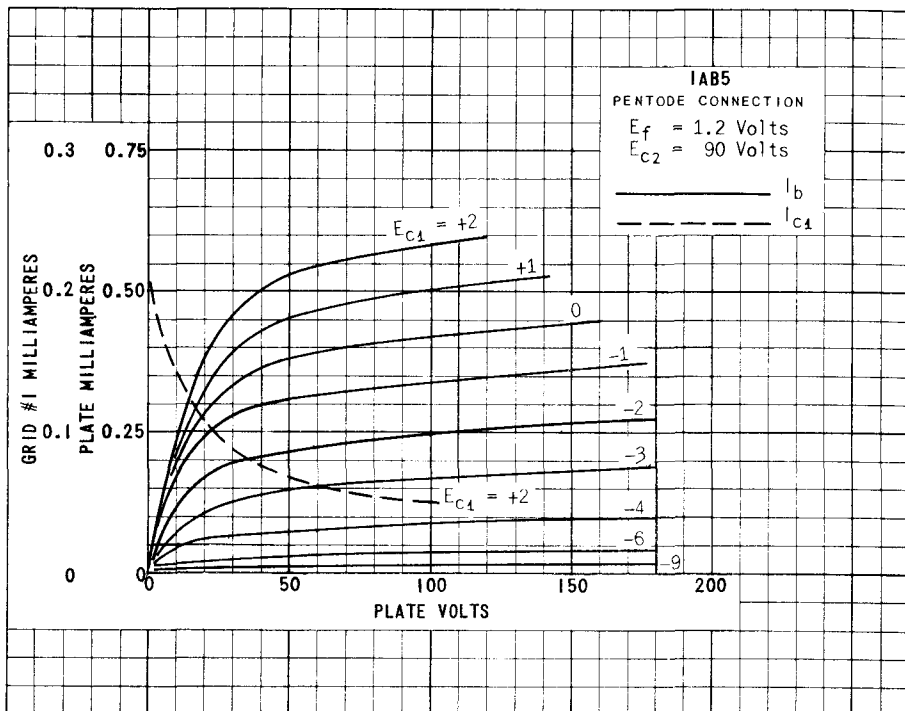
## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS  $A_1$  AMPLIFIER

|                                                          |                |       |                  |
|----------------------------------------------------------|----------------|-------|------------------|
| FILAMENT VOLTAGE                                         | 1.2            | 1.2   | VOLTS            |
| FILAMENT CURRENT                                         | 130            | 130   | MA.              |
| PLATE VOLTAGE                                            | 90             | 150   | VOLTS            |
| GRID #2 VOLTAGE                                          | 90             | 150   | VOLTS            |
| GRID #1 VOLTAGE                                          | 0 <sup>A</sup> | -1.5  | VOLTS            |
| GRID #1 RESISTOR (SELF BIAS)                             | ---            | 170   | OHMS             |
| PLATE RESISTANCE (APPROX.)                               | 0.275          | 0.125 | MEGOHM           |
| TRANSCONDUCTANCE                                         | 1 100          | 1 350 | $\mu\text{MHOS}$ |
| PLATE CURRENT                                            | 3.5            | 6.8   | MA.              |
| GRID #2 CURRENT                                          | 0.8            | 2     | MA.              |
| GRID #1 VOLTAGE (APPROX.) FOR $G_m = 40 \mu\text{MHOS}$  | -14            | -23   | VOLTS            |
| GRID #1 VOLTAGE (APPROX.) FOR $G_m = 725 \mu\text{MHOS}$ | -3             | -6    | VOLTS            |

<sup>A</sup> GRID #1 RESISTOR SHOULD BE 1 MEGOHM UNDER CONDITIONS OF ZERO-BIAS.





# IAB5

