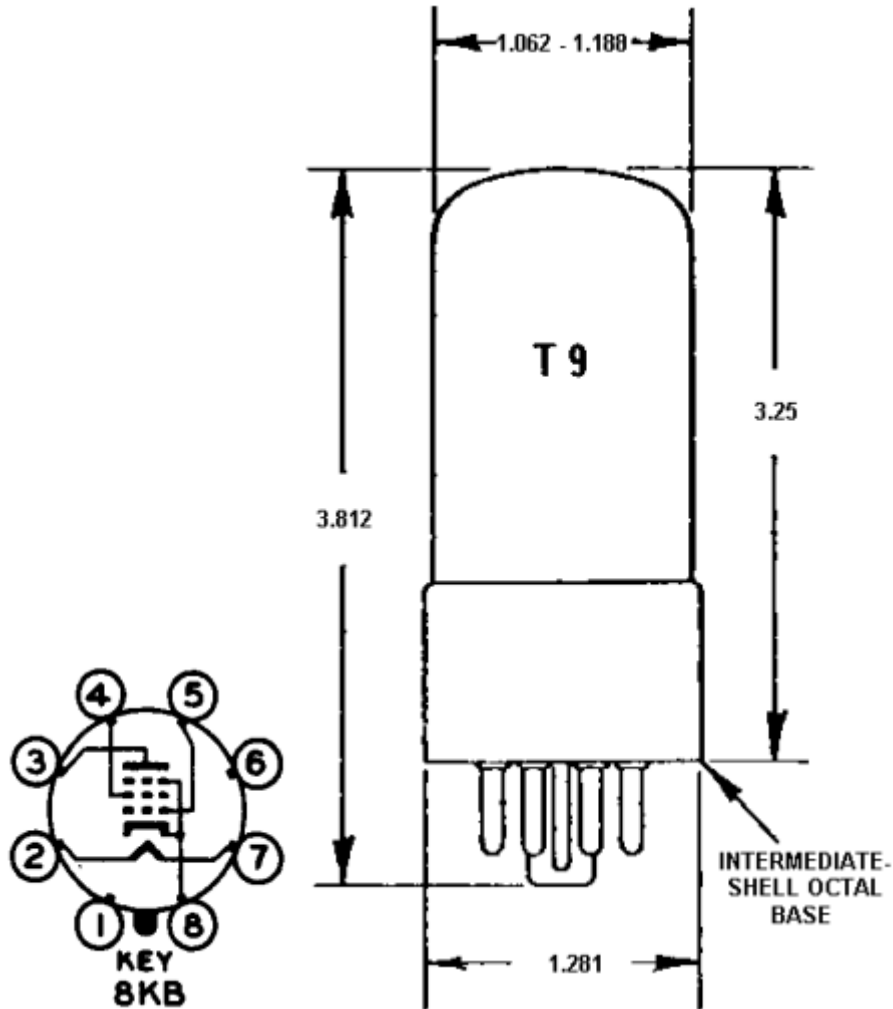


# 6FE5 ( 50FE5 ) Beam Power Pentode

Base & Bulb ( RCA RC-27 - 1973)



## Mechanical Data

Bulb ..... T-9  
Outline ..... 9-33  
EIA Base ..... 8KB

## Electrical Data

Heater Voltage ..... 6.3 V ( 50V )  
Heater Current ..... 1.2 A ( 0.15A )

## Direct Interelectrode Capacitances (approx)

### Pentode

Input ..... 15.0 pf  
Output ..... 9.0 pf  
Grid to Plate ..... 0.44 pf

## Maximum Ratings (Design Center Values)

### Pentode

|                              |        |
|------------------------------|--------|
| Plate Voltage .....          | 175 V  |
| Grid No. 2 Voltage .....     | 175 V  |
| Plate Dissipation .....      | 14.5 W |
| Grid No. 2 Dissipation ..... | 2.4 W  |

## Characteristics and Typical Operation

### Class A Amplifier

|                                 |                    |
|---------------------------------|--------------------|
| Plate Voltage .....             | 145 V              |
| Grid No. 2 Voltage .....        | 145 V              |
| Grid No. 1 Voltage .....        | -16 V              |
| Plate Resistance (approx) ..... | 8000 $\Omega$      |
| Transconductance .....          | 9500 $\mu\text{S}$ |
| Plate Current .....             | 100 mA             |
| Grid No. 2 Current .....        | 18 mA              |
| Load Resistance .....           | 1K $\Omega$        |
| Power Output (approx) .....     | 5.6 W              |

## Characteristics and Typical Operation

### Class A Amplifier

|  |                    |
|--|--------------------|
| Plate Voltage .....  | 130 V              |
| Grid No. 2 Voltage .....                                       | 130 V              |
| Grid No. 1 Voltage Derived from<br>Cathode Bias Resistor ..... | 120 $\Omega$       |
| Plate Resistance (approx) .....                                | 8000 $\Omega$      |
| Transconductance .....   | 9500 $\mu\text{S}$ |
| Plate Current .....  | 88 mA              |
| Grid No. 2 Current .....                                       | 5.0 mA             |
| Load Resistance .....  | 1K $\Omega$        |
| Power Output (approx) .....                                    | 3.5 W              |

## Characteristics and Typical Operation

### Class A Amplifier

|  |                    |
|--|--------------------|
| Plate Voltage .....  | 130 V              |
| Grid No. 2 Voltage .....                                       | 130 V              |
| Grid No. 1 Voltage Derived from<br>Cathode Bias Resistor ..... | 75 $\Omega$        |
| Plate Resistance (approx) .....                                | 8000 $\Omega$      |
| Transconductance .....   | 9500 $\mu\text{S}$ |
| Plate Current .....  | 150 mA             |
| Grid No. 2 Current .....                                       | 7.2 mA             |
| Load Resistance .....  | 1.6K $\Omega$      |
| Power Output (approx) .....                                    | 7.0 W              |